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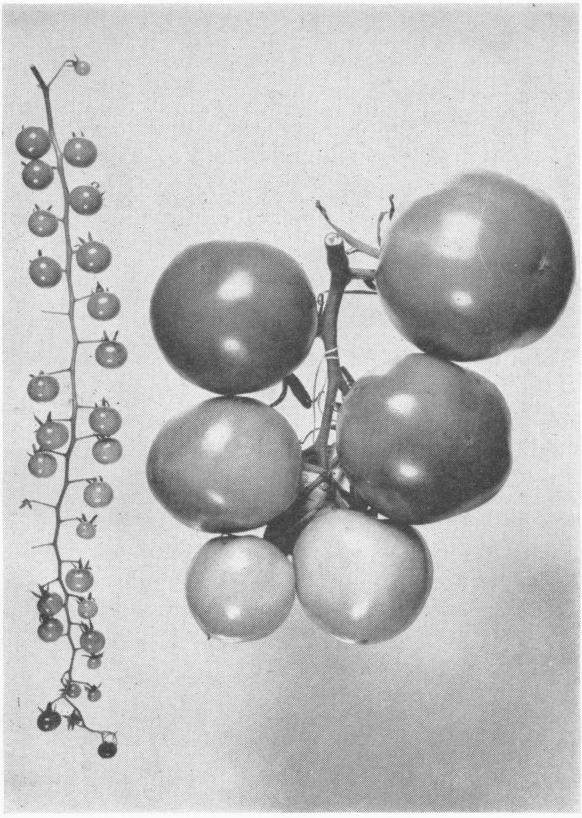
Horticultural Characters and Reaction to Two Diseases of the Lycopersicon Accessions in the North Central Region



M. M. Hoover, L. J. Alexander, E. F. Paddock, and A. F. Dodge

Agricultural Experiment Stations of Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; United States Department of Agriculture.

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OHIO AGRICULTURAL EXPERIMENT STATION

WOOSTER, OHIO

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Grateful acknowledgment is made of the work of Mr. R. A. Crum who grew the plants, took many of the notes and harvested the seed at the Ohio Agricultural Experiment Station.

HORTICULTURAL CHARACTERS AND REACTION TO TWO DISEASES OF THE LYCOPERSICON ACCESSIONS IN THE NORTH CENTRAL REGION

M. M. HOOVER, LEONARD J. ALEXANDER, E. F. PADDOCK, R. A. CRUM, and A. F. DODGE[1]

INTRODUCTION

During the past 20 years, several hundred accessions of the genus *Lycopersicon* have been introduced into the United States by the Section of Plant Introduction, Agricultural Research Service of the United States Department of Agriculture and by private individuals either through correspondence or by trips abroad. Even though the tomato is considered to be indigenous to South America and possibly Central America, many collections came from other areas of the world. However, the wild species were collected largely in their natural habitat.

The North Central Regional Plant Introduction Station in cooperation with the Ohio Agricultural Experiment Station, Wooster, Ohio, has assembled 1253 of these tomato introductions under New Crops Project NC-7. They have been classified as to species, reaction to two diseases, described for certain horticultural characters, and are being maintained by storage of viable seed, except in a few cases where it is necessary to maintain the stocks as clones. Included in this collection are 92 genetic stocks. In these, 61 genes have been verified. There are also tetraploids, diploids resulting from doubling the chromosome number in haploids, and male steriles. These studies have been conducted at the Ohio Agricultural Experiment Station. Seed multiplication, storage, and distribution are handled at the Regional Plant Introduction Station at Ames, Iowa.

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[1]M. M. Hoover and A. F. Dodge, Regional Plant Introduction Station, Horticultural Crops Research Branch, Agricultural Research Service, United States Department of Agriculture and Iowa State College co-operating, Ames, Iowa; Leonard J. Alexander and E. F. Paddock, Ohio Agricultural Experiment Station.

Each year following completion of the evaluation of the accessions worked with that year, a mimeographed seed-list was published and seed made available for distribution. The last of the mimeographed seed-lists was issued following the work of 1953, Alexander, Hoover, and Paddock, 1954. The evaluations for 1954 are included in this bulletin.

A part of this collection was screened for the diseases which occur in Ohio and Indiana, Alexander, Lincoln, and Wright, 1942. However, in order to further increase the usefulness of this germ plasm bank, another project was initiated in 1952 which has as its objective the screening of all the accessions for the major diseases of tomato which occur in North America. A preliminary report of the screening of 144 accessions, which largely consist of the wild species was reported by Alexander and Hoover, 1953. The complete report for the screening of the same accessions was reported by Alexander and Hoover et al., 1955.

The data secured from all accessions are published in detail because it has been found that, even though many accessions are indistinguishable phenotypically, they are genotypically distinct. This has been especially demonstrated for disease resistance, Alexander and Hoover et al., 1955. However, it is not within the scope of this project to conduct detailed studies for plant characteristics, but it is intended that the accessions be maintained and classified so that they serve as a germ plasm bank for horticulturists, plant pathologists, geneticists, and other workers who are interested in research on tomato. It is hoped that a project can be initiated which has as its objectives a detailed study of the horticultural characteristics of these accessions. Such a project would be comparable to the one under way to classify them for disease resistance. The primary purpose of this publication is to make available the results of this preliminary screening.

ORGANIZATION OF NORTH CENTRAL REGIONAL NEW CROPS PROJECT NC-7

The North Central Regional New Crops Project NC-7 is entitled "The Introduction, Testing, Multiplication, and Preservation of New and Useful Plants of Potential Value for Industrial and Other Uses and for the Preservation of Valuable Germ Plasm of Economic Plants." This program is cooperative among the 12 experiment stations of the North Central Region and the Section of Plant Introduction of the Agricultural Research Service of the United States Department of Agriculture.

The Section of Plant Introduction assumes leadership in conducting plant explorations, both foreign and domestic, identifying and classifying the plant materials collected, clearing the plant materials through proper

inspection and quarantine procedure, and placement of the stocks with the Regional Plant Introduction Stations or research agencies. The Section of Plant Introduction supplies new plant introductions to each of the four experiment station regions in the United States, provides technical assistance from members of its staff, and gives administrative guidance and co-ordination to the work of the national New Crops Project.

Experiment station staff co-operation in the North Central Region is provided through a Regional Technical Committee consisting of a staff member appointed by the experiment station director from each of the states of the region. The Regional Technical Committee meets at least once each year and recommends a budget for the conduct of project work, prepares and approves formal state projects concerned with the objectives of the plant introduction program, and establishes priority classes for plant materials needed in the introduction program. Each member of the Regional Technical Committee in conjunction with a local committee representing the plant-using divisions of the experiment station serves to carry forward the objectives of the Plant Introduction Project in his respective state.

Regional Plant Introduction Stations have been established in each of the four Experiment Station Regions of the United States. Ames, Iowa, is the location of the Regional Plant Introduction Station for the 12 states of the North Central Region. The Regional Station is provided with, a technical staff for growing and making initial evaluation of new introductions during the seed increase year, equipment, land, and seed storage facilities with controlled temperature and humidity. The maintenance of reserve seed stocks is a very important phase of the work and permits the Regional Station to serve as the plant materials center for the 12 states of the North Central Region. Any research worker may request new introductions or replacement stocks from the germ plasm storage. The Regional Station in addition to initial seed observation and increase, also maintains record cards for each accession as received from research workers who are screening and evaluating the new introductions for use in crop breeding and improvement programs.

A seed list giving the initial observational field notes of all accessions successful grown at the Regional Station and reports of progress concerning objectives of the project are prepared annually and distributed to members of the Regional Technical Committee and interested research workers at experiment stations of the region.

More than 6000 accessions have been successfully increased at the Regional Station since it was established in December, 1947. Reserve stocks of these introductions are maintained in storage. In addition, there are many horticultural varieties including pears, apples, and stone fruits maintained in cooperation with certain experiment stations. The Regional Station in performing its major function as the plant materials center for the region may serve also as the national center for all regions with respect to crops that appear to be particularly well adapted to the region. The Regional Station of the North Central Region, for example has become the national center for the establishment, initial evaluation, seed increase and distribution of tomato accessions to research workers of the United States and foreign countries.

MATERIALS AND METHODS

Many of the accessions were collected by Blood and Tremelling in 1937 on their expedition to South America. Some were collected on expeditions to other parts of the world. Still others were collected by interested individuals. The remainder were developed by research workers as desirable plant breeding material, as gene markers, as tetraploids or as male sterile lines. In earlier editions of the seed lists, gene symbols were used as listed by Young and MacArthur, 1947. In this publication the gene symbols used are those listed by Barton, et al., 1955.

Stocks were multiplied at the Iowa and Ohio Agricultural Experiment Stations. All the stocks were grown at the Ohio Station for classification and evaluation. For all, except the genetic stocks, the soil used was a well-drained Wooster silt loam in good physical condition, but extremely low in fertility. This type of soil was selected because it was observed that the green fruited species fruited better under conditions of low fertility. The accessions were grown during the six-year period 1949 through 1954. As quickly as sufficient seed of an accession was available for distribution, it was placed in storage at the Regional Plant Introduction Station at Ames, Iowa, and entered in the seed list, Alexander, Hoover, and Paddock, 1954.

For the purpose of evaluation and classification either ten or fifteen plants were grown in single plots. However, in some instances, in working with old seed fewer plants were secured and in a few instances no plants were secured, thus the accession was lost. In most cases where only one or at most a very few plants were secured plants of the accessions were grown and evaluated another year. It was observed that where accessions were evaluated for two or more years the evaluations were in a high degree of agreement.

Earliness of maturity was largely judged by the performance of the varieties Rutgers and Stokesdale. Under Ohio conditions Stokesdale was considered to be medium to early in maturity and Rutgers, medium to late.

The regular accessions, with certain exceptions, were classified by species, sub-species, and varieties according to Muller, 1940. The type species *Lycopersicum peruvianum* and the variety *dentatum* of it are so nearly alike that no attempt was made to distinguish between them. They therefore are listed together. Likewise in the species *L. esculentum* no attempt was made to distinguish between the type species and the form *pyriforme* and variety *cerasiforme*. In fact, it was found that an almost continuous series exists between *L. pimpinellifolium* and *L. esculentum*. Such a series includes all those that normally should be classified as variety *cerasiforme*. Likewise, the fruit types of many of the accessions varied from a slight suggestion of *pyriforme* type to a pear shape. Therefore, instead of attempting to make a discontinuous series, the accessions of this species were all listed together.

There were, however, a large number of accessions that possessed many of the characteristics of the species *Lycopersicon pimpinellifolium* and some of the characteristics of *L. esculentum*. These accessions, numbering 114, were classed separately under the heading, Suspected Crosses. Since the two species, *L. pimpinellifolium* and *L. esculentum,* readily hybridize the suspected crosses presumably resulted from chance outcrosses in nature.

Eighty-five of the accessions of the species, *Lycopersicon esculentum,* are named commercial varieties. Ninety-eight others are thought to be commercial varieties, but the names were not obtained by collectors. All these accessions are included under a sub-heading in the type species of *L. esculentum.*

The genetic stocks have been largely derived from the species *Lycopersicon esculentum,* although a few have been derived from the species *L. pimpinellifolium.* However, even though derived from two species, they are listed together under a separate heading, Genetic Stocks.

For convenience the accessions are placed into five tables. The classification of the accessions in the appendix tables is as follows:

Table 4.

Lycopersicon glandulosum

a. type species

Lycopersicon hirsutum

a. type species

b. variety *glabratum*

Lycopersicon peruvianum

a. type species including var. *dentatum*

b. variety *humifusum*

Table 5.

Lycopersicon pimpinellifolium

a. type species

Table 6.

Species crosses

a. known crosses

b. suspected crosses

Table 7.

Lycopersicon esculentum

a. named varieties and presumed varieties

b. type species including f. *pyriforme* and var. *cerasiforme*

Table 8.

Genetic stocks

a. verified markers

b. tetraploids

c. auto-diploids

d. male steriles and other unfruitfuls

The accessions were evaluated for vine and fruit characters. The descrpitions were based upon estimates, not upon definite measures. Fruit size was estimated to the nearest one-eighth inch by observation. In many instances where there was variation within an accession (many accessions varied greatly), the estimate for the specific character was an average of all the plants. However, where individual plants of an accession were constant for characters except for one plant the variation exhibited by it was ignored. Special explanation is necessary for the gene symbols under the heading, Genotype, in tables 4 through 7 of the appendix. Genetic stocks have known genes and to be of value, stocks must be listed with their gene symbols. The complete list of gene symbols used is given in table 3 in the section on results. However, a great

many of the other accessions appeared to be fairly constant for certain characters and to reduce the number of columns in the tables, gene symbols were used for the eight characters shown in table 1.

TABLE 1.—Characters and their gene symbols used in tables 4-7.

Dominant factor		Recessive factor	
Character	Gene symbol	Character	Gene symbol
Normal leaflet	C	potato leaflet	c
Smooth stem	H	hairy stem	h
Smooth fruit	P	pubescent fruit	p
Red flesh color	R	yellow flesh color	r
Red flesh color	T	tangerine flesh color	t
Green shoulder	U	uniform unripe fruit color	u
Non-wilty leaflet	Wt	wilty leaflet	wt
Yellow fruit skin	Y	colorless fruit skin	y

In as many cases as possible five classes were used to describe each character. However, this was not possible in all cases. The characters for which the accessions were evaluated and the classes used to describe them are shown in table 2.

The accessions were classified in the field for their reaction to the leaf blight phase of early blight incited by *Alternaria solani,* and for their reaction to the tobacco mosaic disease. Inoculations with tobacco mosaic virus were made in the field. Two methods of inoculation were used without noticeable differences in results. In the years 1949 and 1950, the plants were inoculated by rubbing a minimum of three leaflets with carborundum and tomato juice which had been extracted from plants infected with what appeared to be the normal green strain of the virus, *Marmor tabaci,* Holmes 1944. In subsequent years, inoculations were made by blowing the inoculum into a minimum of three leaflets, using the method described by Richards and Munger, 1944. Prior to inoculation the infective juice was diluted with an equal volume of water and carborundum added. In later inoculations compressed air was substituted for compressed nitrogen gas.

Inoculations with *Alternaria solani* were made by dusting the plants, during a wet period, with pulverized infected tomato leaves. The inoculum was prepared by grinding tomato leaves which had been killed by *A. solani.* The ground leaves were then diluted with an equal volume of inert material.

TABLE 2.—Characters used to classify and describe the accessions

PI number	Origin	Genotype	Vine and foliage characters: Size 1-5	Growth habit	Size of leaflets 1-5	Fruit characters: Cracking: Amount 1-5	Cracking: Type C-R	Size in inches	Shape 1-5	Set 1-5	Maturity 1-5	Intensity of flesh color 1-5	Locules (number)	Fasciation 1-5	Diseases: Alternaria 1-5	Mosaic
		C-H-P-R-T-U-Wt-Y	1 Small	Prostrate	1 Small	1 None	C Concentric	Nearest 1/8th inch	1 Oblate (flat)	1 Light	1 Early	1 Light	Numbers given up to 5. Above that listed as "many"	1 Smooth	1 Slight	Resistant
			2 Small-medium	Intermediate	2 Small-medium	2 Slight	R Radial		2 Globose (round)	2 Light-medium	2 Early-medium	2 Light-medium		2 Slightly fasciated	2 Slight-medium	Susceptible
			3 Medium	Erect	3 Medium	3 Medium			3 Ovate (eggs)	3 Medium	3 Medium	3 Medium		3 Medium fasciated	3 Medium	
			4 Medium-large		4 Medium-large	4 Medium-severe			4 San Marzano	4 Medium-heavy	4 Medium-late	4 Medium-dark		4 Fasciated	4 Medium-severe	
			5 Large		5 Large	5 Severe			5 Pyriforme	5 Heavy	5 Late	5 Dark		5 Severe	5 Severe	

The accessions, as received from the Section of Plant Introduction and from other investigators, in many instances were not uniform. Some appeared to be segregating for some characters, whereas other accessions appeared to consist of mixtures of seed. In the case of the latter, usually there appeared to be only one or at the most a few off-type plants. In this case, seed was not saved from these plants. However, where accessions were not uniform and appeared to be segregating, seed was saved from all the plants. Thus, no attempt was made to secure pure lines of the accessions, rather a definite attempt was made to maintain the germ plasm possessed when introduced into this country. When desirable gene or genes are discovered individual workers can inbreed for homozygosity.

However, in the case of the genetic stocks, care was used to save seed only from typical plants. Since it was not physically possible to hand self such a large number of genetic stocks, investigators may find an occasional off-type plant. However, such plants can readily be discarded. In other genetic stocks certain characters, if homozygous, are lethal or render the plant sterile. Hence, in these cases stocks are distributed which segregate for the character as verified by progeny tests.

RESULTS

The classification of the 1253 accessions for species, for vine and fruit characters, for genetic characteristics, for resistance to the leaf blight phase of early blight, *Alternaria solani,* and resistance to tobacco mosaic, *Marmor tabaci,* resistance is shown in tables 4-8 in the appendix. The locule number of the fruits of all the wild species is 2, therefore, no records concerning the character are given in tables 4 and 5 of the appendix. The number of locules found in commercial varieties is extremely variable and notes for this character are included in tables 6, 7, and 8 of the appendix.

CLASSIFICATION AND EVALUATION OF THE GREEN FRUITED SPECIES

The classification of the three green fruited species, *Lycopersicon glandulosum, L. hirsutum* type species and *L. hirsutum* var. *glabratum,* and *L. peruvianum* type species and var. *dentatum* and *L. peruvianum* var. *humifusum,* is shown in table 4 of the appendix. *L. peruvianum* type species and *L. peruvianum* var. *dentatum* were considered together because of the difficulty of distinguishing between them. The fourth green fruited species *L. cheesmanii* is not available in this country.

The fruits of these species are mostly greenish or white and are globose. Generally the fruits of *Lycopersicon peruvianum* are lavender or purple striped. Since the fruit color and fruit shape of these species are constant, no records for these characters were made. In many instances, it was not possible to classify accessions of this species for mosaic resistance and susceptibility. Such cases are indicated in table 4 by dashes. Also, in certain of the accessions so few fruit, if any, ripened that it was impossible to classify them for intensity of flesh color, these cases are also indicated by dashes in table 4.

These species can be hybridized with the domestic species only with the greatest of difficulty. The most successful method of obtaining hybrids was described by Smith, 1944. This method employs embryo culture, but even so an exceedingly small percentage of seedlings is obtained. In order to make full use of the potentially valuable germ plasm of these species, an easier method is needed.

CLASSIFICATION AND EVALUATION OF THE CURRANT TOMATO, *Lycopersicon pimpinellifolium*

The currant tomato, *Lycopersicon pimpinellifolium,* has been used as the source of genes for resistance to several diseases and for this reason is a highly valuable tomato. The degree of cross fertility between this species and the domestic species, *L. esculentum* is high, thus any desirable character or characters which this species possesses are readily available. The fruits of accessions of the species, *L. pinpinellifolium,* are remarkably free of cracks. There is, however, one exception, the fruits of PI 144955 cracked. The classification of the species is shown in table 5 of the appendix.

CLASSIFICATION AND EVALUATION OF TWO KNOWN SPECIES CROSSES AND THE SUSPECTED CROSSES BETWEEN *Lycopersicon esculentum* × *L. pimpinellifolium*

The two known species crosses were made by the use of the embryo culture method, Smith 1944. They are, *Lycopersicon esculentum* var. Michigan State Forcing, × *L. peruvianum,* PI 128157, and *L. esculentum* var. John Baer × *L. glandulosum,* PI 126448. The F_1 hybrids from both crosses are carried as clones. However, they produce numerous fruit with some viable seeds, thus it is possible to secure F_2 individuals from them. Even though these two crosses have been secured, many additional crosses are needed because of the heterozygous condition of the wild species.

Many of the accessions which possess characters which resemble *Lycopersicon esculentum* and at the same time possess characters which resemble *L. pimpinellifolium* are grouped under the heading, Suspected Crosses. Progenies in the F_1, F_2, F_3, and succeeding generations from known crosses between the two species have yielded plants which closely resemble plants of the accessions in this group and it is for this reason that the accessions are thus separated. Included in this group are some of the accessions that normally would be classified as *L. esculentum* var. *cerasiforme*. The classification of this group is shown in table 6 of the appendix.

CLASSIFICATION AND EVALUATION OF THE DOMESTIC SPECIES, *Lycopersicon esculentum*

The classification of the species *Lycopersicon esculentum* is shown in table 7 of the appendix. Approximately three-fourths of all the accessions assembled were this species. The fruit size ranged from very small to very large. In fact, table 7 is divided into two sections as follows: named and presumed varieties, and type species. In the former section there are 85 named varieties which have been preserved for one or more reasons and 98 other accessions which were collected, and which are presumed to be named varieties.

It is difficult to describe the type species of *Lycopersicon esculentum* because of the wide divergence of characters in the species. The fruit size varies from less than 1 inch to over 3 inches. The shape varies from globose to pear shape to San Marzano. The flesh color may be white, red, yellow, or tangerine and the skin color varies from colorless to yellow. Likewise, there are many variations in plant types. Perhaps this great variation results from mutations which have been saved in cultivation or semi-cultivation.

CLASSIFICATION AND EVALUATION OF THE GENETIC STOCKS

The information about genetic stocks is presented in table 8 of the appendix. It is subdivided under four headings: a. verified markers, b. tetraploids, c. auto-diploids, d. male steriles and other unfruitfuls.

The source of the genetic stocks with accession numbers are listed in table 8, of the appendix, in the column headed, Origin. Where several generations have elapsed since original receipt of seed, a string of symbols, separated by hyphens reveals the number of generations. A number in such a series refers to the individual plant from which seed was collected. An M means that seed was massed from several plants. An F^s means that the harvested seed resulted from field selfing, in other words from natural pollination.

In the Genotype column, gene symbols are used in accordance with Barton et al., 1955. The symbols are arranged from left to right according to linkage group and Butler's map, Butler, 1952. Each linkage group is enclosed with parentheses. Genes with unknown linkage relationships are listed alphabetically to the right of a colon after the last linkage group. Characteristics not yet assigned a gene symbol are listed last on the right. Characteristics and genes are listed only where the accession is different from Marglobe. This is in accordance with Barton et al., 1955.

An alphabetical list of the sixty-one gene symbols employed and a description of the characteristics each one induces, and where known, the linkage group to which it belongs are shown in table 3.

In table 8, section d of the appendix, an evaluation of vine, foliage, and fruit characters was not recorded because the male steriles were observed as segregates in progenies from backcrossing within the variety where the male sterile originated. All male steriles and unfruitful plants had vines that grew more profusely than the fruitful plants in the variety of origin, and had few, if any, fruits. Most such fruits were parthenocarpic, but some had a few seeds. Seed was harvested from all normal segregates. The segregates which carried the gene listed were identified by progeny tests. Detailed descriptions of these male steriles have been published, Rick, 1945, 1947, 1948, and 1953.

DISCUSSION

In such a general survey, it is difficult to find many accessions which possess specific characters with which a plant breeder may work exclusively. Rather, it is only possible to point out that certain accessions probably possess the character that may be needed. It is then incumbent upon the worker to determine by experimental trial the specific accession from those which probably possess the character. Also, since many of the accessions were not homozygous when received for classification and evaluation, and since no attempt was made to select for homozygosity, it is incumbant upon the research worker to isolate the desired character or characters in a homozygous condition. An exception to the above condition exists in the genetic stocks. With these stocks, efforts were made to keep them in the homozygous condition in which they were received. However, because of the large number of stocks handled it was not possible to hand self them, thus it is to be expected that an occasional off-type plant may be observed in these inbred recessive gene stocks. The male sterile and some unfruitful stocks must be maintained in a heterozygous condition and therefore segregate for the recessive male sterile character.

TABLE 3.—Index to gene symbols for characters in marker gene lines. <a <b

Gene symbol	Linkage group <c	Character
A	V	Purple stem
al	VIII	anthocyanin loser
ap	?	apetalous
aw	I <d	without anthocyanin
bk	I	beaked fruit
br	III	brachytic stem
bu	VI	bushy stem
c	IV	potato leaf
ca	?	cauliflower
Cl_1	?	Cleistogamous 1
cl_2	?	cleistogamous 2
D	I	Tall stem
dl	VI <e	dialytic stamen
dm	IX	dwarf modifier
e	XI	entire leaflet
f	V	fasciated fruit
h	VII	hairy stem
I	V <f	Immunity to *Fusarium oxysporum* f. *lycopersici* race 1
j	V	jointless pedicel
l	VI	prematurely lutescent foliage
lf	V	leafy inflorescence
lg	VII <g	light green foliage
m	I	mottled
mc	XII	macrocalyx
ms (8 genes)	?	male steriles
ms_{10}	I <h	male sterile
n	V	nipple-tip fruit
nc	X	narrow cotyledon
ne	I	necrotic foliage
o & ol	I	elongated plum fruit
p	I	peach-pubescent fruit
pe	VII <i	sticky skin on fruit
pi	?	pistillate
ps	?	positional sterile flower
R	II	Red flesh color of fruit (vs. yellow flesh, r)

TABLE 3.—Index to gene symbols for characters in marker gene lines. <a <b—Continued

Gene symbol	Linkage group <c	Character
ri	?	ridged leaf
s	I	compound inflorescence
sl	?	stamenless
sp	IV	self topping, determinate stem
t	VII	tangerine orange flesh color of fruit
tf	?	trifoliate
u	VII	uniform unripe fruit color
ug	?	uniform unripe fruit color, gray green
v	?	virescent foliage
vg	?	vegetative
wd	?	wilty dwarf
wf	II	white or tan corolla
Wo	I	Woolly
wt	V	wilty
x	V <l	ineffective microgametes
Xa	VII	Xanthophyllic foliage
Y	III	Yellow skin on fruit (vs colorless, y)
yv	?	yellow virescent

<a Gene symbols used as in Barton, et al , 1955
<b Capital letters refer to dominant alleles
<c Butler, 1952, unless otherwise indicated
<d Dennett & Larson, 1953
<e Robinson & Rick, 1954
<f Paddock, 1950
<g Butler, 1954
<h Butler & Rick, 1953
<i Butler, 1955
<l Paddock, 1950

Since certain of the accessions appeared to be indistinguishable from one another, it was thought at first that many should be discarded. However, it was observed subsequently that even though certain accessions appear phenotypically alike, some possessed resistance to certain diseases whereas others did not. This has proven to be true with almost all of the groups of the genus *Lycopersicon*. Since one accession may be valuable for one character and another valuable for another character,

all accessions have been maintained and their descriptions published without attempting to emphasize the value of any. The isolation of valuable accessions can only be done by detailed studies for certain specific characters as is being done for disease resistance. Furthermore, gene needs may change with the passage of time. Thus, at later dates rescreening may be advisable.

Some workers have made notable advances in securing higher types of disease resistance by plant selection within segregating accessions. Notable success, in this respect, was obtained by Gallegly for resistance to tomato late blight, Alexander and Hoover et al., 1955. This success should stimulate other workers to try plant selection within accessions. However, plant selection should not be limited to disease resistance as it would appear just as likely that superior horticultural characters could be isolated.

Most of the accessions, included in tables 4, 5, and 6 have been further screened for resistance to sixteen pathogenic diseases and two physiological diseases which seriously affect tomato production in North America. The objective of this intensive screening project is to eventually screen all the accessions included in this publication as well as those subsequently collected. However, it seemed important to publish the results secured from the screening of wild species and certain small fruited *Lycopersicon esculentum* types at this time, because resistance to several diseases was discovered. This has been done, Alexander and Hoover et al., 1955. The screening work reported in that publication is much more detailed, and in most cases checked at several locations on the continent. Thus, it has a wider application for disease work than the results reported here.

The problem of collecting and evaluating tomato accessions will be one that will probably continue for several years even though the number of new accessions introduced each year is not great. However, the number of genetic stocks will continue to increase rapidly. Also, it is expected that as fast as new interspecific hybrids are made they will be added to the collection. This addition will be most valuable because one worker may make the cross for one purpose, whereas another worker may find in the same cross valuable genes for his project. As time permits, it is hoped that the old tested and tried varieties may be included in this germ plasm bank as it is essential to preserve the valuable horticultural characters possessed by them.

The objective of this project is the saving of work for research workers by making available to all the results of screening wherever done.

SUMMARY

Twelve hundred and fifty-three accessions of the genus *Lycopersicon* have been assembled. Parental breeding material and genetical stocks were included. This collection has been classified by species. There are 7 accessions of the species *Lycopersicon glandulosum*, 9 accessions of the species *L. hirsutum* including the variety *glabratum*, 35 accessions of the species *L. peruvianum* including the varieties *dentatum* and *humifusum*, 40 accessions of the species *L. pimpinellifolium*, 114 accessions classified as either known or suspected crosses, 956 accessions of the domestic species *L. esculentum* of which 85 were named varieties, 98 others were presumed to be commercial varieties and 773 wild types, and 91 genetic stocks, mostly of the species *L. esculentum* but a few of the species *L. pimpinellifolium*.

These accessions were classified for their reaction to tobacco mosaic and the leaf blight phase of early blight incited by *Alternaria solani*. They were evaluated for the horticultural characters; leaf type and size, hairy stem, pubescent fruit, flesh color, uniform unripe fruit color, wilty leaflet, fruit skin color, vine size and habit of growth, type and amount of cracking, fruit size and shape, intensity of flesh color, fasciation, number of locules, fruiting ability, and maturity.

Genetic stocks have been multiplied and checked for purity of 61 genes. These stocks include gene marker lines, auto-diploids, tertaploids, and male steriles.

Seed of these accessions has been multiplied, and placed in storage at the Regional Plant Introduction Station at Ames, Iowa for distribution to interested research workers here and abroad.

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APPENDIX

Tables 4 to 8

TABLE 4

Horticultural characters and disease reaction of the green fruited species, Lycopersicon glandulosum, L. hirsutum and L. peruvianum.

PI number	Origin	Genotype	Vine and foliage characters				Fruit characters				Disease reaction	
			Vine size	Growth habit	Leaflet size	Size inches	Shape	Set	Maturity	Intensity flesh color	Alternaria	Mosaic
			Lycopersicon glandulosum; type species									
126434	Peru	C h p U Wt y	2	Prostr	1	0.5	1	1	5	3	2	Susc.
126440	Peru	C h p U Wt y	3	Prostr	2	0.75	1	1	4	1	3	Susc.
126441	Peru	C h p U Wt y	2	Inter	1	0.5	1	1	5	3	2	Susc.
126443	Peru	C h p U Wt y	3	Inter	1	0.67	1	1	5	5	4	Susc.
126444	Peru	C h p U Wt y	3	Inter	2	0.5	1	1	5	5	3	Susc.
126448	Peru	C h p U Wt y	2	Prostr	1	0.75	1	1	5	4	3	Susc.
199380	Peru	C h Wt	1	Prostr	2	-	-	-	-	-	1	Susc.
			Lycopersicon hirsutum; type species									
126445	Peru	C h p U Wt y	5	Inter	4	0.5	1	1	5	1	1	Res.
126446	Peru	C h U Wt y	5	Erect	5	0.5-0.75	2	1	5	-	1	Res.
127826	Peru	C h p U Wt y	4	Inter	4	0.5	2	1	5	3	1	Res.
127827	Peru	C h p U Wt y	3	Inter	4	0.5	2	-	5	-	1	Susc.
			Lycopersicon hirsutum var. glabratum									
126449	Peru	C h p U Wt y	4	Inter	3	0.67	1	1	5	3	2	Susc.
129157	Ecuador	C h p U Wt y	3	Inter	3	0.5	1	1	5	3	2	Susc.
134117	Ecuador	C h p U Wt y	3	Inter	2	0.5	1	1	5	1	1	Susc.
134118	Ecuador	C h p U Wt y	4	Inter	2	0.67	1	1	5	3	2	Susc.
199381	Peru	C h p U Wt y	2	Inter	3	0.5	2	1	5	3	1	Res.
			Lycopersicon peruvianum; type species including var. dentatum									
126431	Peru	C p U Wt y	1	Prostr	1	0.5	1	1	5	-	1	-
126926	Peru	C p U Wt y	4	Inter	1	0.5	1	4	5	-	1	-
126928	Peru	C p U Wt y	2	Inter	2	0.5	2	1	4	3	1	-
126929	Peru	C H p U Wt y	3	Prostr	1	0.5	1	3	5	-	1	-
126930	Peru	C H p U Wt y	4	Prostr	1	0.5	2	1	3	-	1	-
126935	Peru	C p U wt y	2	Inter	1	0.5	1	3	3	-	2	-
126941	Peru	C p U Wt y	1	Prostr	1	0.5	1	3	1	-	4	-
126945	Peru	C p U Wt y	3	Prostr	1	0.5	1	3	2	-	2	-
126946	Peru	C p U Wt y	3	Inter	1	0.5	1	2	2	-	1	-
127830	Peru	C p U Wt y	3	Inter	1	0.5	1	1	2	-	1	-
127831	Peru	C H p U Wt y	2	Inter	1	0.37	1	1	5	5	2	Susc.
127832	Peru	C p U Wt y	5	Inter	1	0.5	2	4	5	-	2	-
286443	Peru	C H p U Wt y	3	Inter	2	0.67	1	3	3	3	1	Susc.
286445	Chile	C p U Wt y	3	Inter	1	0.5	1	3	3	-	3	-
286446	Chile	C p U Wt y	4	Inter	2	0.5	1	2	2	-	1	-
286447	Chile	C p U Wt y	3	Prostr	2	0.5	1	3	1	-	2	-
286448	Chile	C p U Wt y	3	Inter	1	0.5	1	3	3	-	1	-
286449	Chile	C H p U Wt y	3	Inter	1	0.67	1	3	1	-	4	-
286450	Chile	C H p U Wt y	3	Inter	1	0.5	1	3	2	-	2	-
286451	Chile	C H p U Wt y	3	Inter	1	0.5	1	2	4	-	1	-
286452	Chile	C p U Wt y	3	Inter	1	0.5	1	3	3	-	1	-
286453	Chile	C H p U Wt y	2	Inter	1	0.37	1	3	2	-	2	-
286455	Chile	C p U Wt y	1	Inter	1	0.5	1	1	3	-	2	-
286456	Chile	C p U wt y	2	Inter	1	0.5	2	2	3	-	2	-
286457	Peru	C H p U Wt y	3	Prostr	1	0.5	1	3	1	-	1	-
286459	Peru	C H p U Wt y	3	Inter	2	0.37	1	2	5	2	1	Susc.
286460	Peru	C H p U Wt y	3	Inter	2	0.67	1	1	5	2	1	Susc.
286461	Peru	C H p U Wt y	3	Inter	2	0.5	1	1	5	3	1	Susc.
286463	Peru	C p U Wt y	1	Erect	1	0.5	1	1	5	-	1	-
129145	Peru	H U Wt y	3	Prostr	1	0.67	1	3	1	-	4	-
129146	Peru	C H p U Wt y	4	Inter	1	0.67	1	1	5	3	1	Susc.
129149	Ecuador	C h p U Wt y	1	Prostr	1	0.67	1	3	2	-	5	-
129152	Ecuador	C h U Wt y	3	Inter	2	0.67	1	2	5	3	2	Susc.
212407	Peru	C H P U Wt y	5	Prostr	1	0.5	2	5	3	3	-	-
			Lycopersicon peruvianum; var. humifusum									
127829	Peru	C p U Wt y	1	Inter	1	0.75	1	3	3	5	3	Susc.

TABLE 6 (continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters							Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	number loculues	Fasciation		Alternaria	Mosaic
126951	Peru	C h R U Wt Y	3	Inter	3	1	-	0.75	2	3	3	4	2	1		3	Susc.
127799	Peru	C H R U Wt Y	4	Inter	2	1	-	0.5	2	5	1	-	2-3	1		3	-
128194	Mexico	C h R U Wt Y	3	Inter	2	1	-	0.62	2	2	4	-	2	1		1	-
128639	Peru	C h p R U Wt Y	3	Inter	2	1	-	0.62	2	3	2	4	2	1		1	Susc.
128664	Peru	C H P R U Wt Y	4	Inter	2	3	C	0.75	2	4	1	4	2-5	1		3	Susc.
129021	Ecuador	C H R U Wt Y	4	Inter	2	1	-	1.0	1	4	2	-	3	1		3	-
129024	Ecuador	C h P R U wt Y	3	Inter	1	1	-	0.5	2	1	5	3	2	1		2	Susc.
129027	Ecuador	C h p R U Wt Y	4	Inter	2	1	-	0.75	1	5	4	5	2-3	1		1	Susc.
129028	Ecuador	C H R U Wt Y	5	Inter	2	1	-	0.75	2	5	2	-	2-3	1		-	-
129030	Ecuador	C H R U Wt Y	4	Inter	3	1	-	0.75	2	5	1	-	2-3	1		5	-
129062	Columbia	C h R U Wt Y	4	Erect	1	1	-	0.62	2	3	5	-	2	1		2	-
129074	Columbia	C h R U Wt Y	3	Inter	2	1	-	0.62	2	4	2	-	2-3	1		1	-
129089	Columbia	C h R U Wt Y	4	Inter	2	1	-	0.75	2	1	5	-	2-3	1		2	-
129090	Columbia	C h p R U Wt Y	4	Inter	1	1	-	0.62	2	3	1	3	2-3	1		2	Susc.
129105	Columbia	C h R U Wt Yy	5	Erect	1	1	-	0.5	2	3	5	-	2-5	1		1	-
129108	Columbia	C h R U Wt Yy	4	Erect	3	-	-	1.0	2	3	1	-	3-many	1		4	-
129116	Columbia	C h P R U Wt Y	5	Inter	3	-	-	0.37	2	4	5	-	2-4	1		1	-
129143	Peru	C h R U Wt Y	4	Inter	2	-	-	0.75	2	5	1	-	3-5	1		5	-
129148	Ecuador	C H P R U Wt Y	2	Inter	2	2	C	1.0	2	4	1	3	3-many	1		3	Susc.
129154	Ecuador	C h p R U Wt Y	3	Inter	3	1	-	0.75	3	5	1	3	2-3	1		2	Susc.
129155	Ecuador	C h P R U Wt Y	3	Inter	2	1	-	0.75	1	5	2	5	2	1		2	Susc.
129156	Ecuador	C h P R U Wt Y	3	Inter	2	1	-	0.62	1	5	1	5	2	1		2	Susc.
129686	Ecuador	C h P R U wt Y	4	Inter	2	3	R	1.0	1	2	2	2	2-many	1		4	Susc.
135022	Columbia	C h R U Wt Y	4	Inter	2	-	-	0.62	2	2	2	-	2-3	1		2	-
135842	Afghanistan	C h R U Wt Y	4	Inter	3	-	-	1.0	2	3	5	-	3-4	1		2	-
143680	Iran	C H R U Wt Y	5	Inter	2	-	-	0.75-1.0	2	4	5	-	2-3	1		3	-
146089	Iran	C h R U Wt Yy	2	Prostr	1	-	-	0.75	2	4	1	-	2-3	1		2	-
147609	Brazil	C h R U Wt Y	4	Inter	2	-	-	0.75	2	5	3	-	2-3	1		3	-
147635	Ecuador	C H R U wt Y	3	Prostr	1	-	-	0.75	2	5	1	-	3	1		5	-
152043	Costa Rica	C h p R U Wt Y	4	Erect	3	-	-	0.75	1	2	3	4	2	1		2	Susc.
155368	Peru	C h p R U wt Y	3	Inter	3	1	-	1.0	2	3	1	4	2-many	1		2	Susc.
155369	Peru	C h p R U wt Y	2	Erect	2	1	-	1.0	1	3	1	4	2-3	1		3	Susc.
155371	Peru	C h P R U wt Y	3	Inter	2	1	-	1.0	2	5	1	3	2-3	1		5	Susc.
155375	Peru	C H P R U wt Y	2	Inter	3	2	C	1.0	2	3	1	4	3	1		3	Susc.
155378	Peru	C H P R U wt Y	3	Inter	3	1	-	1.0	1	4	2	4	2-4	1		3	Susc.

TABLE 6 (continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	number locules	Fasciation	Alternaria	Mosaic
153379	Peru	C h p R U wt Y	3	Inter	3	1	-	1.0	1	4	1	2	2-3	1	2	Susc.
158161	Venezuela	C h P R U Wt Y	3	Inter	3	2	R	0.5	2	3	3	3	2-3	1	2	Susc.
158164	Venezuela	c h P R U Wt Y	4	Inter	3	1	-	1.0	2	4	2	1	3	1	2	Susc.
158166	Venezuela	c h P R U Wt Y	4	Inter	3	1	-	1.0	2	4	2	1	3	1	3	Susc.
158167	Venezuela	C h P R U Wt Y	4	Inter	3	1	-	1.0	2	4	2	1	3	1	1	Susc.
158171	Venezuela	C h P R U Wt Y	2	Inter	3	1	-	0.5	2	3	2	3	2	1	2	Susc.
159007	Peru	C h P R U wt Y	2	Inter	2	1	-	1.0	1	3	4	4	2-3	2	3	Susc.
162246	India-2	C R U wt Y	2	Inter	1	-	-	0.5	2	3	2	-	2	1	4	-
166365	India-6	C h P R U Wt Y	3	Inter	2	1	-	0.75	3	3	2	3	2	1	3	Susc.
185688	Guatemala-24	C h P R U Wt Yy	4	Inter	3	1	-	0.75	2	4	2	1	2	1	3	Susc.
185689	Guatemala-24	C h P R U Wt y	3	Inter	2	1	-	0.5	2	5	1	1	2	1	2	Susc.
187002	Guatemala-24	C h p R U wt Y	3	Inter	1	1	-	0.62	2	4	1	1	2	1	1	Susc.
190188	Mexico-27	C h P R U Wt Y	2	Inter	2	3	R	0.5	2	3	3	3	2-3	1	2	Susc.
190256	New Caledonia-27	C h P R U Wt Y	4	Inter	2	1	-	0.75	2	4	2	2	2	1	3	Susc.
195003	Ethiopia-31	C h P R U Wt Y	2	Inter	3	2	R	1.0	2	3	3	3	2	1	4	Susc.
195006	Ethiopia-31	C h p R U Wt Y	2	Inter	2	2	C	0.5	2	4	3	3	2-3	1	2	Susc.
195322	Guatemala-31	C h p R U Wt Y	2	Inter	2	2	C	0.5	2	3	3	2	2	1	2	Susc.
195324	Guatemala-31	C h p R U Wt Yy	2	Inter	3	2	R	0.5	2	3	3	2	2-3	1	3	Susc.
195325	Guatemala-31	C h p R U Wt Yy	2	Inter	3	2	C-R	0.5	2	3	3	2	2-4	1	3	Susc.
195781	Guatemala-31	C h p R U Wt Yy	3	Inter	2	3	R	0.5	2	3	3	2	2	1	2	Susc.
195788	Guatemala-32	C h P R U Wt Y	2	Inter	2	1	-	0.5	2	3	3	2	2	1	4	Susc.
195789	Guatemala-32	C h P R U Wt y	2	Inter	2	3	R	0.5	2	3	3	2	2	1	2	Susc.
195790	Guatemala-32	C h p R U Wt y	2	Inter	2	2	R	0.5	2	3	3	2	2	1	2	Susc.
195791	Guatemala-32	C h P R U Wt Y	2	Inter	3	1	-	0.5	2	3	3	2	2	1	2	Susc.
197159	Guatemala-32	C h p R U Wt Y	2	Inter	2	1	-	0.5	2	1	5	2	2	1	3	Susc.
198912	Brazil-33	C h P R U Wt Y	2	Inter	2	1	-	0.75	2	3	3	3	2-3	1	-	Susc.
204587	Turkey-37	C h P R U Wt Yy	2	Inter-	2-3	3	C-R	2.0	2-3-1	3	3	2-3	2-5	1-2	2	Susc.
204975	Puerto Rico-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.5	-	5	3	4	2-3	2	-	Susc.
204976	North Carolina-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.5	-	3	3	3	2-5	1	-	Susc.
204978	W.VA. No.45-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.0	2	3	3	3	2	1	-	Susc.
204980	W.VA. No.106-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.0	2	4	3	3	2	1	-	Susc.
204981	W.VA. No. 126-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.0	2	4	3	3	2	1	-	Susc.
204982	W.VA. No. 126-2-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -1.0	2	4	3	3	2	1	-	Susc.
204987	W.VA. No. 171-1-37	C h P R U Wt Yy	2	Inter	2	2	C-R	0.75-2.0	1	3	3	3	2-many	4	-	Susc.
204992	W.VA. No.502-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -1.0	2	3	3	3	2-3	1	-	Susc.

TABLE 6 (continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters							Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	number loculues	Fasciation		Alternaria	Mosaic
126951	Peru	C h R U Wt Y	3	Inter	3	1	-	0.75	2	3	3	4	2	1		3	Susc.
127799	Peru	C H R U Wt Y	4	Inter	2	1	-	0.5	2	5	1	-	2-3	1		3	-
128194	Mexico	C h R U Wt Y	3	Inter	2	1	-	0.62	2	2	4	-	2	1		1	-
128639	Peru	C h p R U Wt Y	3	Inter	2	1	-	0.62	2	3	2	4	2	1		1	Susc.
128664	Peru	C H P R U Wt Y	4	Inter	2	3	C	0.75	2	4	1	4	2-5	1		3	Susc.
129021	Ecuador	C H R U Wt Y	4	Inter	2	1	-	1.0	1	4	2	-	3	1		3	-
129024	Ecuador	C h P R U wt Y	3	Inter	1	1	-	0.5	2	1	5	3	2	1		2	Susc.
129027	Ecuador	C h p R U Wt Y	4	Inter	2	1	-	0.75	1	5	4	5	2-3	1		1	Susc.
129028	Ecuador	C H R U Wt Y	5	Inter	2	1	-	0.75	2	5	2	-	2-3	1		-	-
129030	Ecuador	C H R U Wt Y	4	Inter	3	1	-	0.75	2	5	1	-	2-3	1		5	-
129062	Columbia	C h R U Wt Y	4	Erect	1	1	-	0.62	2	3	5	-	2	1		2	-
129074	Columbia	C h R U Wt Y	3	Inter	2	1	-	0.62	2	4	2	-	2-3	1		1	-
129089	Columbia	C h R U Wt Y	4	Inter	2	1	-	0.75	2	1	5	-	2-3	1		2	-
129090	Columbia	C h p R U Wt Y	4	Inter	1	1	-	0.62	2	3	1	3	2-3	1		2	Susc.
129105	Columbia	C h R U Wt Yy	5	Erect	1	1	-	0.5	2	3	5	-	2-5	1		1	-
129108	Columbia	C h R U Wt Yy	4	Erect	3	-	-	1.0	2	3	1	-	3-many	1		4	-
129116	Columbia	C h P R U Wt Y	5	Inter	3	-	-	0.37	2	4	5	-	2-4	1		1	-
129143	Peru	C h R U Wt Y	4	Inter	2	-	-	0.75	2	5	1	-	3-5	1		5	-
129148	Ecuador	C H P R U Wt Y	2	Inter	2	2	C	1.0	2	4	1	3	3-many	1		3	Susc.
129154	Ecuador	C h p R U Wt Y	3	Inter	3	1	-	0.75	3	5	1	3	2-3	1		2	Susc.
129155	Ecuador	C h P R U Wt Y	3	Inter	2	1	-	0.75	1	5	2	5	2	1		2	Susc.
129156	Ecuador	C h P R U Wt Y	3	Inter	2	1	-	0.62	1	5	1	5	2	1		2	Susc.
129686	Ecuador	C h P R U wt Y	4	Inter	2	3	R	1.0	1	2	2	2	2-many	1		4	Susc.
135022	Columbia	C h R U Wt Y	4	Inter	2	-	-	0.62	2	2	2	-	2-3	1		3	-
135842	Afghanistan	C h R U Wt Y	4	Inter	3	-	-	1.0	2	3	5	-	3-4	1		2	-
143680	Iran	C H R U Wt Y	5	Inter	2	-	-	0.75-1.0	2	4	5	-	2-3	1		3	-
146089	Iran	C h R U Wt Yy	2	Prostr	1	-	-	0.75	2	4	1	-	2-3	1		2	-
147609	Brazil	C h R U Wt Y	4	Inter	2	-	-	0.75	2	5	3	-	2-3	1		3	-
147635	Ecuador	C H R U wt Y	3	Prostr	1	-	-	0.75	2	5	1	-	3	1		5	-
152043	Costa Rica	C h p R U Wt Y	4	Erect	3	-	-	0.75	1	2	3	4	2	1		2	Susc.
155368	Peru	C h p R U wt Y	3	Inter	3	1	-	1.0	2	3	1	4	2-many	1		2	Susc.
155369	Peru	C h p R U wt Y	2	Erect	2	1	-	1.0	1	3	1	4	2-3	1		3	Susc.
155371	Peru	C h P R U wt Y	3	Inter	2	1	-	1.0	2	5	1	3	2-3	1		5	Susc.
155375	Peru	C H P R U wt Y	2	Inter	3	2	C	1.0	2	3	1	4	3	1		3	Susc.
155378	Peru	C H P R U wt Y	3	Inter	3	1	-	1.0	1	4	2	4	2-4	1		3	Susc.

TABLE 6 (continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	number loc-ules	Fasci-ation	Alternaria	Mosaic
155379	Peru	C h p R U wt Y	3	Inter	3	1	-	1.0	1	4	1	2	2-3	1	2	Susc.
158161	Venezuela	C h P R U Wt Y	3	Inter	3	2	R	0.5	2	3	3	3	2-3	1	2	Susc.
158164	Venezuela	c h P R U Wt Y	4	Inter	3	1	-	1.0	2	4	2	1	3	1	2	Susc.
158166	Venezuela	c h P R U Wt Y	4	Inter	3	1	-	1.0	2	4	2	1	3	1	3	Susc.
158167	Venezuela	C h P R U Wt Y	4	Inter	3	1	-	1.0	2	4	2	1	3	1	1	Susc.
158171	Venezuela	C h P R U Wt Y	2	Inter	3	1	-	0.5	2	3	2	3	2	1	2	Susc.
159007	Peru	C h P R U wt Y	2	Inter	2	1	-	1.0	1	3	4	4	2-3	2	3	Susc.
163246	India-2	C R U wt Y	2	Inter	1	-	-	0.5	2	5	2	-	2	1	4	-
166365	India-6	C h P R U Wt Y	3	Inter	2	1	-	0.75	3	3	2	3	2	1	3	Susc.
185688	Guatemala-24	C h P R U Wt Yy	4	Inter	3	1	-	0.75	2	4	2	1	2	1	3	Susc.
185689	Guatemala-24	C h P R U Wt y	3	Inter	2	1	-	0.5	2	5	1	1	2	1	2	Susc.
187002	Guatemala-24	C h p R U wt Y	3	Inter	1	1	-	0.62	2	4	1	1	2	1	1	Susc.
190188	Mexico-27	C h P R U Wt Y	2	Inter	2	3	R	0.5	2	3	3	3	2-3	1	2	Susc.
190256	New Caledonia-27	C h P R U Wt Y	4	Inter	2	1	-	0.75	2	4	2	2	2	1	3	Susc.
195003	Ethiopia-31	C h P R U Wt Y	2	Inter	3	2	R	1.0	2	3	3	3	2	1	4	Susc.
195006	Ethiopia-31	C h p R U Wt Y	2	Inter	2	2	C	0.5	2	4	3	3	2-3	1	2	Susc.
195322	Guatemala-31	C h p R U Wt Y	2	Inter	2	2	C	0.5	2	3	3	2	2	1	2	Susc.
195324	Guatemala-31	C h p R U Wt Yy	2	Inter	3	2	R	0.5	2	3	3	2	2-3	1	3	Susc.
195325	Guatemala-31	C h p R U Wt Yy	2	Inter	3	2	C-R	0.5	2	3	3	2	2-4	1	3	Susc.
195781	Guatemala-31	C h p R U Wt Yy	3	Inter	2	3	R	0.5	2	3	3	2	2	1	2	Susc.
195788	Guatemala-32	C h P R U Wt Y	2	Inter	2	1	-	0.5	2	3	3	2	2	1	4	Susc.
195789	Guatemala-32	C h P R U Wt y	2	Inter	2	3	R	0.5	2	3	3	2	2	1	2	Susc.
195790	Guatemala-32	C h p R U Wt y	2	Inter	2	2	R	0.5	2	3	3	2	2	1	2	Susc.
195791	Guatemala-32	C h P R U Wt Y	2	Inter	3	1	-	0.5	2	3	2	2	2	1	2	Susc.
197159	Guatemala-32	C h p R U Wt Y	2	Inter	2	1	-	0.5	2	1	5	2	2	1	3	Susc.
198912	Brazil-33	C h P R U Wt Y	2	Inter	2	1	-	0.75	2	3	3	3	2-3	1	-	Susc.
204587	Turkey-37	C h P R U Wt Yy	2	Inter-	2-3	3	C-R	2.0	2-3-1	3	3	2-3	2-5	1-2	2	Susc.
204975	Puerto Rico-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.5	-	5	3	4	2-3	2	-	Susc.
204976	North Carolina-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.5	-	3	2	3	2-5	1	-	Susc.
204978	W.VA. No.45-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.0	2	3	3	3	2	1	-	Susc.
204980	W.VA. No.106-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.0	2	4	3	3	2	1	-	Susc.
204981	W.VA. No. 126-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.0	2	4	3	3	2	1	-	Susc.
204982	W.VA. No. 126-2-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -1.0	2	4	3	3	2	1	-	Susc.
204987	W.VA. No. 171-1-37	C h P R U Wt Yy	2	Inter	2	2	C-R	0.75-2.0	1	3	3	3	2-many	4	-	Susc.
204992	W.VA. No.502-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -1.0	2	3	3	3	2-3	1	-	Susc.

TABLE 6 (continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking		Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	number locules	Fasciation	Alternaria	Mosaic
204996	W.Va.No.700-37	C h P R U Wt Yy	2	Inter	2	1	-	0.62-1.5	2	3	3	3	2-3	1	-	Susc.
204997	W.Va.No.701-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -1.0	2	3	3	3	2	1	-	Susc.
204998	W.Va.No.702-37	C h P R U Wt Y	2	Inter	2	1	-	0.62-1.0	2	3	3	2	2	1	-	Susc.
204999	W.Va.No.703-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -0.75	2	3	3	2	2-3	1	-	Susc.
205002	W.Va.No.711-37	C h P R U Wt Y	2	Inter	2	1	-	0.62-1.25	2	3	3	3	2-5	1	-	Susc.
205010	W.Va.No.775-2-37	C h P R U Wt Yy	2	Inter	2	2	C-R	0.75-1.5	-	3	3	4	2-3	2	-	Susc.
205011	W.Va.No.795-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.5 -1.75	-	3	3	3	2-5	1	-	Susc.
205013	W.Va.No.809-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.25	2	3	3	3	2-3	1	-	Susc.
205014	New Caledonia-37	C h P R U Wt Y	2	Inter	2	1	-	0.5	2	3	3	-	2	1	-	-
205015	W.Va.No.819-1-37	C h P R U Wt Y	2	Inter	2	1	-	1.0 -2.0	-	3	3	3	2-many	2	-	Susc.
205016	W.Va.No.819-2-37	C h P R U Wt Y	2	Inter	2	1	-	0.62-0.75	2	3	3	3	2	1	-	Susc.
205017	W.Va.No.828-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.5	2	3	3	4	2-3	1	-	Susc.
205018	W.Va.No.828-2-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.25	-	3	3	3	2-4	1	-	Susc.
205019	W.Va.No.846-1-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.25	2	3	3	3	2	1	-	Susc.
205020	W.Va.No.846-2-37	C h P R U Wt Y	2	Inter	2	1	-	0.75-1.5	-	3	3	3	2-4	2	-	Susc.
205021	W.Va.No.878-37	C h P R U Wt Y	2	Inter	2	1	-	1.0	2	3	3	3	2-3	1	-	Susc.
205022	W.Va.No.880-37	C h P R U Wt Y	2	Inter	2	1	-	1.0 -1.25	3	3	3	3	2-3	1	-	Susc.
205026	W.Va.No.887-1-37	C h P R U Wt Y	2	Inter	2	1	-	1.25-1.5	-	3	3	3	2-5	1	-	Susc.
205033	W.Va.No.891-3-37	C h p R U Wt Y	2	Inter	2	1	-	0.75-2.0	-	3	3	3	2-4	1	-	Susc.
209975	Bolivia	C h p R U Wt Y	3	Inter	3	3	C	1.5	2-1	3	3	3	2-3	1	2	Susc.
212410	Venezuela	C h P R U Wt Y	5	Erect	1	1	-	0.5 -0.75	2	5	3	3	2	1	-	-
212411	Morocco	C P R U Wt Y	5	Inter	1	1	-	0.75	2	5	3	3	2	1	-	-

TABLE 7

Horticultural characters and disease reaction of the domestic tomato,

Lycopersicon esculentum, including form pyriforme and variety cerasiforme.

PI number	Origin	Variety name	Genotype	Vine and foliage characters						Fruit characters							Disease reaction	
							Cracking											
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number loc-ules	Fasciation	Alternaria	Mosaic
				Named and presumed varieties														
91458	India	Primrose Gage	C h p r U wt Y	2	Inter	1	1	-	1.75	3	1	3	1	2-many	2	2	Susc.
91907	Bulgaria		C h R U wt Y	3	Inter	3	-	-	2.75	1	3	3	-	5-many	2	4	-
91918	Bulgaria		C h R U wt Y	3	Erect	4	-	-	2.0	1	3	5	-	many	2	3	-
95591	Manchuria		C h R U wt Y	3	Inter	3	-	-	1.75	2	4	2	-	3-many	2	3	-
98097	Cuba	Rinon	C h R U wt Yy	3	Erect	3	-	-	1.25	1	4	1	-	many	2	3	-
102813	U.S.S.R.	Tshudorynka	C h R U wt Y	3	Inter	3	-	-	2.5	1	3	2	-	many	2	3	-
106997	British Guiana	Creole	C h R U wt Yy	3	Prostr	1	-	-	1.25	1	3	1	-	2-3	1	4	-
109113	Turkey		C h R U wt Y	5	Inter	4	-	-	2.75	1	3	3	-	many	2	3	-
109315	Turkey		C h R U wt Y	4	Inter	3	-	-	3.0	1	3	3	-	many	2	4	-
109514	Turkey		C h p R U wt Y	2	Inter	4	2	R	2.75	1	3	3	2	many	4	3	Susc.
109831	Morocco	De Marmande	C h U wt Y	1	Inter	2	-	-	2.5	1	3	1	-	many	4	5	-
109832	Morocco	Des Alliés	C h R U wt Y	3	Inter	3	-	-	2.25	1	3	5	-	many	2	1	-
109833	Morocco	Joffre	C h R U wt Y	1	Erect	2	-	-	2.0	1	4	1	-	3-4	1	4	-
109834	Morocco	Merville des Marches	C h R U wt Y	3	Inter	3	-	-	2.5	1	3	3	-	many	2	4	-
109835	Morocco	Plerette	C h R U wt Y	3	Inter		-	-	2.5	1	5	1	-	many	2	-	-
109836	Morocco	Precoce des Halles	C h R U wt Y	1	Inter	2	-	-	2.5	1	5	1	-	many	2	5	-
109837	Morocco	Premiere	C h R U wt Y	1	Inter	3	-	-	2.5	1	5	1	-	many	2	5	-
109838	Morocco	Profusion	C h R U wt Y	1	Inter	2	-	-	2.0	1	4	2	-	3-4	1	5	-
110946	Columbia	Ovita	C h R U wt y	4	Inter	3	-	-	1.5	5	5	1	-	4-many	-	4	-
111406	Panama	Mercado	C h R U wt Yy	3	Inter	3	-	-	2.0	1	3	1	-	many	4	5	-
111407	Panama	Monte Oscuro	C h R U wt Yy	3	Prostr	3	-	-	2.5	1	3	1	-	many	4	5	-
111408	Panama	Pacora	C h R U wt Yy	4	Inter	3	-	-	2.5	1	3	3	-	many	5	3	-
111409	Panama	Sona	C h R U wt Yy	3	Inter	3	-	-	2.0	1	3	1	-	many	2	5	-
113516	Egypt		C h p R U wt Y	1	Erect	4	1	-	3.5	1	2	5	2	many	4	3	Susc.
115201	U.S.S.R.	First Early	C h P R U wt Y	3	Inter	3	2	R	1.25	1	3	3	3	2-many	1	3	Susc.

TABLE 7 (Continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters					Fruit characters							Disease reaction	
				Vine size	Growth habit	Leaflet size	Cracking Amt.	Cracking Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
									Named and presumed varieties								
115219	U.S.S.R.	Reine des Halives	C h R U wt Y	2	Inter	2	-	-	2.25	1	3	1	-	many	4	5	-
115299	Turkey		C h P R U wt Y	2	Erect	3	3	C-R	3.0	1	4	2	5	many	4	5	Susc.
115872	U.S.S.R.	Chudo Rinka	C h R U Wt Y	3	Inter	4	-	-	1.25	2	4	1	-	2-3	1	2	-
116526	India		C h P R U Wt Y	3	Inter	3	3	C-R	3.0	1	3	3	3	many	2	5	Susc.
118328	Brazil		C h R U Wt Y	4	Erect	3	-	-	2.5	1	3	3	-	many	2	2	-
118686	Brazil		C h p R U wt Y	2	Inter	4	2	C	2.75	1	4	2	1	4-many	2	5	Susc.
121662	Canada	Abel	C h R U Wt Y	1	Inter	2	-	-	2.0	1	1	1	-	many	2	3	-
121663	Canada	Alacrity	C h R U Wt Y	2	Inter	3	-	-	2.25	1	3	1	-	many	2	5	-
121664	Canada	Bestal	C h R U Wt Y	3	Inter	3	-	-	2.0	2	3	1	-	3-many	1	4	-
121665	Canada	Globonnie	C h R U Wt Y	3	Inter	3	-	-	2.25	2	3	1	-	3-many	2	3	-
121666	Canada	Herald	C h R U Wt Y	2	Prostr	3	-	-	2.5	1	3	1	-	many	2	3	-
121667	Canada	Pink	C h R U Wt y	3	Inter	4	-	-	2.0	2	3	1	-	many	2	5	-
123433	Morocco	Aurore	C h p R U Wt Y	3	Inter	4	2	C	2.75	3	4	2	2	4-many	2	5	Susc.
123434	Morocco	Hatif de Cologne	C h p R U Wt Y	3	Inter	4	2	R	2.25	1	4	3	1	2-many	2	4	Susc.
123435	Morocco	Gloria de Mordin	C h p R U Wt Y	3	Inter	4	2	C	2.25	1	2	4	2	3-4	2	5	Susc.
123436	Morocco	Reine de Reives	C h p R U Wt Y	3	Inter	4	2	C	2.25	1	3	3	3	2-3	2	4	Susc.
123437	Morocco	Potager de Viljoule	C h p R U Wt Y	2	Inter	4	2	C	2.5	1	3	5	3	3-4	4	4	Susc.
123438	Morocco	Sans Parcille	C h p R U Wt Y	2	Inter	3	2	C	2.25	1	2	2	2	3-5	2	4	Susc.
127802	Peru		C h P R U Wt Y	2	Erect	5	3	R	3.0	1	4	5	1	many	4	4	Susc.
127808	Peru		C h P R U Wt Y	2	Inter	4	4	R	2.5	3	4	2	3	4-many	2	3	Susc.
128214	Argentina		C h R U Wt Y	3	Inter	3	-	-	2.5	1	3	4	-	5-many	2	2	-
128285	Argentina		h P R U wt Y	3	Inter	5	2	C	2.75	1	4	4	3	many	2	3	Susc.
128287	Argentina		C h P R U wt Y	2	Inter	4	2	R	2.5	3	1	4	4	3-many	1	3	Susc.
128288	Argentina		C h P R U Wt Y	3	Inter	4	2	C	2.75	1	1	2	4	many	2	3	Susc.
128289	Argentina		C h P R U wt Y	3	Inter	3	2	R	3.0	1	2	3	3	many	4	3	Susc.

TABLE 7 (continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters						Fruit characters							Disease reaction	
							Cracking											
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
				Named and presumed varieties														
128291	Argentina		C h P R U wt Y	4	Inter	4	3	C	2.75	1	3	2	4	many	4	3	Susc.
128292	Argentina		C h P R U wt Y	3	Inter	3	1	-	2.5	1	4	5	2	4-many	4	3	Susc.
128293	Argentina		C h p R U wt Y	4	Inter	4	2	C	2.5	1	4	5	2	3-many	2	2	Susc.
128338	Canada	Harkness	C h P R U wt Y	3	Inter	3	2	C-R	2.5	1	4	2	3	many	2	5	Susc.
128448	Chile		C h P R U wt Y	5	Inter	5	2	C	2.75	1	3	4	2	3-many	4	2	Susc.
128449	Chile		C h p R U wt Y	4	Inter	4	2	R	2.75	1	2	2	4	3-many	2	3	Susc.
128586	Chile		C h R U Wt Yy	3	Erect	4	-	-	3.5	2	3	4	-	many	2	3	-
128587	Chile		C h p R U wt Y	4	Inter	4	2	C	2.75	1	1	4	2	many	2	2	Susc.
128589	Chile		C h R U Wt Y	2	Inter	4	-	-	3.5	1	3	5	-	many	4	2	-
128591	Chile		C h P R U wt Y	2	Erect	3	2	R	2.5	1	1	2	3	many	2	3	Susc.
128592	Chile		C h R U Wt Yy	3	Inter	3	-	-	3.0	1	2	5	-	many	2	2	-
128597	Chile		C h R U Wt Y	3	Inter	4	-	-	2.0	2	3	2	-	3-many	1	1	-
128602	Chile		C h P R U wt y	5	Inter	4	2	R	2.5x3.5	3	1	5	1	3-5	2	3	Susc.
128605	Chile		Cch P R U wt Y	4	Inter	5	2	C	3.5	1	3	3	2	many	5	3	Susc.
128606	Chile		C h P R U wt Y	3	Inter	4	2	C	3.25	1	3	3	4	many	5	3	Susc.
128609	Chile		C h R U Wt Y	2	Inter	3	-	-	2.5	2	2	3	-	4-many	1	3	-
128610	Chile		C h P R U wt Y	3	Inter	4	2	R	3.5	1	1	4	2	many	4	3	Susc.
128884	France	de Marmande	C h P R U wt Y	3	Inter	4	2	C	3.25	1	3	2	2	many	4	5	Susc.
128885	France	Mikado Ecarlate	C h R U Wt Y	3	Erect	4	-	-	2.5	1	3	5	-	5-many	2	1	-
128886	France	Merveille des Marches	C h R U Wt Y	3	Inter	3	-	-	1.0-2.0	5	4	3	-	2	1	1	-
128887	France	Perfection	C h R U Wt Y	1	Inter	3	-	-	2.0	1	3	1	-	many	2	5	-
128888	France	Reine des Hatives	C h R U Y	1	Inter	3	-	-	2.5	1	3	1	-	many	2	4	-
128889	France	Roi Humbert	C h R U Wt Y	2	Inter	3	-	-	2.0	1	3	3	-	4-many	2	3	-
128890	France	Rouge Grosse	C h R U wt Y	2	Inter	3	-	-	2.0	1	3	2	-	many	4	4	-
129043	Ecuador		C h p R U wt Y	4	Inter	4	2	R	3.0	1	2	2	3	many	5	3	Susc.

TABLE 7 (Continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters			Cracking			Fruit characters							Disease reaction	
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
									Named and presumed varieties								
129113	Colombia		C h P R U wt Y	3	Inter	4	2	C	2.75	1	1	5	4	many	4	2	Susc.
129126	Panama		C h P R U Wt Y	3	Inter	4	2	R	2.5	1	4	3	3	many	4	3	Susc.
129132	Argentina		C h p R U wt Y	4	Inter	4	2	C	2.75	1	2	2	3	many	4	3	Susc.
129133	Argentina		C h P R U wt Y	4	Inter	4	2	R	2.75	1	2	2	2	many	4	3	Susc.
129138	Argentina		C h P R U wt Y	3	Inter	4	2	C	3.0	1	3	2	1	many	5	3	Susc.
129139	Argentina		C h P R U Wt Y	3	Inter	4	2	R	3.0	1	1	2	2	many	4	3	Susc.
129690	Argentina	Palo Blanco	C h P R U Wt Y	3	Inter	3	4	C-R	2.0	1	3	4	5	many	2	3	Susc.
131879	Argentina	Palo Blanco	C h P R U Wt Y	2	Erect	3	3	C	3.0	1	1	4	1	3-5	4	2	Susc.
135909	Baluchistan		C h R U Wt Y	1	Prostr	3	-	-	2.75	1	2	3	-	many	2	5	-
136475	New Zealand		C h R U Wt Y	4	Inter	3	-	-	2.0	1	5	2	-	5-many	2	5	-
140050	Brazil		C h P R U Wt Y	3	Inter	3	1	-	2.5	1	3	2	4	many	2	5	Susc.
140417	Iran		C h R U Wt Y	3	Inter	3	-	-	2.5	1	3	3	-	many	2	4	-
141963	Manchuria		C h R U Wt Y	4	Erect	3	-	-	2.75	1	4	5	-	many	2	3	-
142700	Mexico		C h R U Wt Yy	4	Inter	3	-	-	3.2	1	2	3	-	many	4	2	-
146083	Iran		C h R U Wt y	3	Erect	4	-	-	2.5	1	2	5	-	many	2	3	-
146090	Iran		C h R U Wt Y	3	Inter	3	-	-	2.5-3.0	1	2	5	-	many	4	3	-
146129	Brazil	Paulista	C h R U Wt Y	3	Prostr	1	-	-	1.25	3	3	3	-	2-3	1	3	-
147282	Tasmania		C h R U Wt Y	3	Erect	5	-	-	2.5	2	4	3	-	5-many	1	4	-
148656	Iran		c H R U Wt Y	3	Inter	5	-	-	2.5-3.0	1	3	3	-	many	1	3	-
157193	Australia	Tatura Dwarf Globe	C h P R U Wt Y	1	Erect	3	3	C	2.5	1	4	3	2	3-many	2	5	Susc.
157992	Italy	Prezioso	C h P R U Wt Y	1	Inter	3	3	C	2.25	1	5	4	2	many	4	5	Susc.
157993	Italy	Prospero	C h P R U wt Y	2	Inter	3	3	C	2.5	1	4	1	1	many	4	5	Susc.
158760	China	Chih mu tao se	C h P R U Wt Y	1	Inter	3	3	R	2.75	1	2	1	4	many	2	4	Susc.
159001	Peru		C h P R U Wt Y	2	Inter	3	3	C	2.5	1	2	2	2	3-4	2	4	Susc.
159199	Peru	Rutgers' Mould Res	C h P R U Wt Y	2	Inter	3	3	C	2.0	1	3	3	3	2-many	2	4	Susc.

TABLE 7 (Continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters					Fruit characters						Disease reaction	
							Cracking									
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
				Named and presumed varieties													
163250	India-2		C R Wt Y	4	Inter	3	-	-	3.0	1	3	4	-	5	1	4	-
165189	India-5	Ponderosa	C h R U wt y	3	Erect	3	-	-	3.0	1	2	5	-	many	4	2	-
165190	India-5	Marglobe	C h R U Wt Y	4	Erect	3	-	-	2.5	1	3	3	-	5	3	3	-
167054	Turkey-7		C R U Wt Y	1	Erect	4	-	-	2.5	1	1	5	-	Many	2	3	-
169578	Turkey-9		C R U Wt Y	4	Erect	4	-	-	4.0	1	3	5	-	many	4	2	-
169585	Turkey-9		C R U Wt Y	4	Erect	3	-	-	4.0	1	1	5	-	many	4	2	-
171712	Turkey-11		C h P R U Wt Y	2	Erect	3	2	R	2.75	1	1	2	4	many	2	5	Susc.
171713	Turkey-11		C h P R U Wt Y	1	Inter	3	3	C	2.75	1	1	4	3	3-many	2	4	Susc.
171714	Turkey-11		C h P R U Wt Y	4	Erect	4	2	R	2.75	1	2	4	2	many	4	2	Susc.
171715	Turkey-11	Sirik	C h P R U Wt Y	3	Inter	4	3	C	3.0	1	3	5	3	many	4	3	Susc.
172966	Turkey-12		C h P R U Wt Y	2	Inter	4	2	R	2.75	1	3	5	3	many	4	3	Susc.
172967	Turkey-12		C h P R U Wt Y	3	Inter	4	3	R	2.75	1	4	4	3	2-many	4	2	Susc.
172969	Turkey-12		C h p R U wt Y	3	Inter	4	2	C	2.75	1	3	4	4	4-many	4	3	Susc.
173220	India-13		C h p R U wt Y	3	Inter	4	2	R	2.5	1	3	4	2	4-many	2	3	Susc.
175776	Turkey-15		C h P R U Wt Y	3	Inter	4	2	C	3.0	1	3	2	3	many	4	2	Susc.
175781	Turkey-15		c h P R U Wt Y	2	Erect	5	2	R	3.25	1	4	3	2	many	4	3	Susc.
176635	Turkey-16		C h P R U Wt Y	3	Inter	4	3	C	3.0	3	2	2	3	3-4	1	3	Susc.
177008	Turkey-16		C h P R U Wt Y	3	Inter	4	2	R	2.5	1	1	4	2	many	2	2	Susc.
177010	Turkey-16		C h P R U Wt Y	3	Erect	4	3	C	2.5	1	2	4	2	4-many	2	3	Susc.
179362	Turkey-19	Turfan	C h P R U Wt Y	3	Inter	4	2	R	2.5	1	2	4	4	many	4	4	Susc.
179364	Turkey-19		C h P R U Wt Y	2	Inter	4	2	C	2.5	1	2	2	3	many	4	3	Susc.
179365	Turkey-19		C h P R U Wt Y	3	Inter	4	2	R	3.25	1	1	5	1	many	4	2	Susc.
180301	India-20		c h P R U wt Y	2	Inter	4	2	C	2.5	1	1	2	2	3-many	2	3	Susc.
181777	Turkey-20		C h P R U Wt Y	2	Inter	4	2	R	3.25	1	2	5	4	many	4	4	Susc.
181778	Turkey-20		C h P R U wt Y	2	Erect	4	2	C	3.25	1	3	2	3	many	4	3	Susc.
182234	Turkey-21		C h P R U wt Y	2	Erect	4	2	R	3.0	1	4	4	3	many	4	2	Susc.
182235	Turkey-21		C h P R U wt Y	2	Inter	4	3	R	3.0	1	2	3	3	many	4	3	Susc.
183692	Turkey-22	Scarletawen	C h P R U wt Y	1	Inter	4	3	C	2.5	3	5	2	2	-	1	3	Susc.
183693	Turkey-22	Stokerdale	C h P R U Wt Y	2	Inter	4	3	R	2.5	1	4	2	2	4-many	1	3	Susc.
183952	India-23		C h P R U wt Y	2	Inter	4	2	C	2.75	1	4	4	2	many	4	2	Susc.

TABLE 7 (Continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
				Named and presumed varieties													
188565	Italy-26		C h P R U Wt Y	1	Inter	2	5	C	2.0	1	2	3	2	4-many	4	4	Susc.
188566	Italy-26		C h P R U Wt Y	2	Inter	3	2	C-R	2.0	1	2	3	2	many	4	4	Susc.
188567	Italy-26		C h P R U Wt Y	2	Inter	3	2	C-R	2.0	1	3	3	2	many	4	4	Susc.
188568	Italy-26		C h P R U Wt Y	2	Inter	3	2	C-R	2.25	1	3	3	3	many	4	4	Susc.
188569	Italy-26		C h P R U Wt Y	2	Inter	3	3	C-R	2.0	1	3	3	3	3-many	4	5	Susc.
188570	Italy-26		C h P R U Wt Y	2	Inter	3	2	C-R	2.25	1	3	3	2	2-many	4	4	Susc.
188571	Italy-26		C h P R U Wt Y	2	Inter	3	2	C-R	2.25	1	3	3	2	many	4	4	Susc.
190858	Argentina-28	Rey de los Tempranos	C h P R U wt Y	2	Inter	3	1	-	2.25	1	5	1	5	many	5	5	Susc.
190859	Argentina-28		C h P R U Wt Y	3	Erect	3	2	C-R	3.5	1	3	5	2	many	2	4	Susc.
193357	Australia-30	Tatinter	C h P R U wt Y	2	Erect	3	3	R	3.0	1	4	3	4	many	4	5	Susc.
193415	Penn State	Pennorange	C h P R u wt y	3	Inter	3	2	C	3.25	1	1	3	4	many	1	-	-
193555	Ethiopia-30	Bonny Best	C h P R U Wt Y	1	Inter	2	3	C-R	1.75	1	3	2	3	2-many	2	4	Susc.
193556	Ethiopia-30	Paradeiser	C h P R U Wt Y	2	Inter	3	3	C-R	2.25	3	2	5	2	4-many	2	3	Susc.
194060	France-30	Marmande	C h P R U Wt Y	2	Inter	3	2	C-R	2.25	1	3	3	3	3	4	5	Susc.
194061	France-30	Merveille des Marches	C h P R U Wt Y	2	Inter	3	2	C-R	2.25	1	3	3	2	many	4	3	Susc.
194561	Argentina-31	Mormon 50-Day	C h P R U Wt Y	2	Inter	2	3	C	3.0	1	2	4	2	5-many	4	-	Susc.
194884	Argentina-31		C h P R U Wt Y	2	Inter	3	3	C-R	2.5	1	2	3	3	many	2	4	Susc.
196481	Brazil-32		C h P R U Wt Y	2	Inter	3	3	C-R	2.25	1	3	3	3	many	2	4	Susc.
196868	Ethiopia-32		C h P R U Wt Y	3	Inter	3	2	C-R	2.25	3	3	3	4	3-many	2	3	Susc.
199016	Argentina-33	Juan Peron	C h P R U Wt Y	3	Inter	3	2	C-R	2.25	1	3	3	4	many	2	3	Susc.
199017	Oklahoma-33	Plains Tree	C h P R u Wt Y	2	Inter	3	3	C-R	1.5	1	3	3	3	many	2	4	Susc.
199018	Oklahoma-33	Sooner	C h P R U Wt Y	1	Inter	3	4	C-R	2.25	1	3	2	3	many	4	4	Susc.
199236	Florida-33	Coopers' Special	C h P R U Wt y	3	Inter	3	5	C-R	2.75	1	3	4	4	many	4	4	Susc.
199237	England-33	Sterling Castle	C h P R U Wt Y	2	Inter	3	2	C-R	2.25	1	4	3	3	many	2	4	Susc.
201267	Mexico-35		C h P R U Wt Y	2	Inter	2	2	C-R	2.25	1	2	3	4	5-many	2	-	Susc.

TABLE 7 (Continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters						Fruit characters							Disease reaction	
							Cracking											
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
				Named and presumed varieties														
201773	Canada-35	Kemp Sel L3700	C h P R u Wt Y	2	Inter	3	3	C-R	1.75	3	4	2	3	many	2	2	Susc.
201774	Oklahoma-35	Harden Jointless	C h P t U Wt y	2	Inter	3	3	C	2.5	1	3	4	3	many	2	4	Susc.
201775	Puerto Rico-35	Petrillo	C h P U Wt Y	5	Inter	3	5	C-R	2.0-4.0	1	5	3	3	many	5	-	-
203229	Australia-36	Manzana	C h P R U Wt Y	2	Inter	2	2	C-R	2.0	1	2	5	4	5-many	2	-	Susc.
203230	Australia-36	Rey de los Tempranos	C h P R U Wt Y	2	Inter	2	5	C-R	1.5	1	3	3	3	5-many	4	-	-
203231	Australia-36	H.E.S. 3963	C h P R u Wt Y	2	Prostr	2	2	C-R	1.75	1	3	4	2	2-3	1	-	-
204989	W.Va.No.172-1-37		C h P R U Wt Y	2	Inter	2	3	C-R	2.0	1	2	3	3	2-many	2	-	Susc.
205008	W.Va.No.731-1-37		C h P R U Wt Y	2	Inter	2	2	C-R	2.0	1	3	3	3	3-many	2	-	Susc.
205028	W.Va.No.889-1-37		C h P R U Wt Y	2	Inter	2	1	-	3.0	1	2	3	2	5-many	2	-	Susc.
205029	W.Va.No.889-2-37		C h P R U Wt Y	2	Inter	2	1	-	2.5-3.0	1	3	3	2	5-many	2	-	Susc.
205030	W.Va.No.890-1-37		C h P R U Wt Y	2	Inter	2	1	-	2.5-3.0	1	3	3	3	5-many	2	-	Susc.
205040	P. A. Young	Yellow Peach	C h p r u Wt y	5	Erect	2	-	-	1.75	3	1	5	2	2-3	1	-	-
205481	Costa Rica-37		C h P R U Wt Y	2	Inter	2	4	C-R	2.0	1	3	3	3	5-many	2	-	Susc.
205641	Italy-37	Genovese	C h P R U Wt Y	2	Inter	2	5	C-R	3.0	1	3	4	4	5-many	5	-	Susc.
205642	Italy-37	Ladino di Pannocchia	C h P R U Wt Y	2	Inter	2	3	C-R	2.0	1	3	3	2	5-many	4	-	Susc.
206151	India-38	Pavill	C h P R U Wt Yy	3	Inter	3	5-3	C-R	2.5	1	1	3	3	4-many	2	3	Susc.
209974	Bolivia	Peron	C h P R U Wt Y	3	Inter	3	5	C	3.0	1	2	2	3	many	2	3	Susc.
212017	Iran		C h P R U Wt Y	3	Inter	3	-	-	2.75	1	1	3	3	many	4	1-5	Susc.
212018	Iran		C h p R U Wt Yy	3	Inter	3	3-2	C-R	3.0	1	1	3	3	many	4	3	Susc.
212103	Afghanistan		C h P R U Wt Yy	3	Inter	3	5-5	C-R	3.0	1	2	3	3	many	4	3	Susc.
212412	North Dakota	Cavalier	C h P R u wt Y	1	Inter	3	1	-	3.0	2	5	1	3	many	1	-	-
212413	North Dakota	Doublerich	C h P R u wt Y	3	Inter	3	1	-	2.0	2	5	1	3	4-6	1	-	-

TABLE 7 (Continued)

PI number	Origin	Variety name	Genotype	Vine and foliage characters			Cracking			Fruit characters							Disease reaction	
				Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic	
				Named and presumed varieties														
212414	New Jersey	(Campbell Soup 119) Reynard 119	C h P R U Wt Y	5	Inter	5	2	R	2.5	2	4	3	3	5-7	1	-	-	
212415	New Jersey	(Campbell Soup 54) Reynard 54	C h P R u Wt Y	5	Inter	5	3	C	3.0	2	4	3	4	5-6	1	-	-	
213186	Greece	Sel. T-28 Bonny Best	C h p R U Wt Y	3	Inter	3	5-5	C-R	2.75	1	2	2	3	3-many	4	3	Susc.	
213187	Greece	Sel. T-51	C h P R U Wt Y	3	Inter	3	5-2	C-R	3.0	1	3	3	3	many	4	4	Susc.	
213188	Greece	Sel. T-62 Scarlet Globe	C h p R U Wt Y	3	Inter	3	5-2	C-R	2.75	1	3	3	3	3-many	4	4	Susc.	
213189	Greece	Sel. T-1385 Early Chatham	C h p R U Wt Y	1	Inter	3	2-2	C-R	2.0	1	3	1	3	many	2	5	Susc.	

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
65023	Balearics	C h R U wt Y	3	Prostr	3	-	-	1.5	3	5	2	-	2-3	1	3	-
91908	Bulgaria	C h R U Wt Y	3	Inter	3	-	-	1.5-2.0	1	3	1	-	4-5	2	4	-
91909	Bulgaria	C h R U Wt Y	3	Inter	3	-	-	2.0	1	5	1	-	many	2	5	-
91911	Bulgaria	C h R U wt Y	3	Prostr	3	-	-	2.5	1	2	1	-	many	4	5	-
91912	Bulgaria	C h P R U Wt Y	2	Inter	2	5	R	2.0	1	5	1	3	many	2	5	Susc.
91913	Bulgaria	C h R U Wt Y	3	Erect	3	-	-	2.5	1	2	5	-	5-many	2	1	-
91914	Bulgaria	C h R U wt Y	3	Inter	3	-	-	2.0	1	3	1	-	many	5	5	-
91916	Bulgaria	C h R U Wt Y	3	Prostr	3	-	-	2.0	2	4	1	-	3-many	2	5	-
91917	Bulgaria	C h R U Wt Y	2	Inter	3	-	-	2.0	1	3	1	-	4-many	2	3	-
91919	Bulgaria	C h R U Wt Yy	3	Inter	3	-	-	2.5	1	3	2	-	many	2	4	-
92356	Mexico	C h P R U Wt Y	3	Inter	3	1	-	1.5	5	2	4	4	3-5	2	4	Susc.
92853	China	C h r U Wt Y	2	Inter	3	-	-	1.5	2	3	2	-	3-5	1	2	-
92854	China	C h R U Wt Y	3	Erect	3	-	-	1.75	1	4	4	-	3-5	2	3	-
92855	China	C h R U Wt Y	3	Inter	3	-	-	1.5	3	5	3	-	3-5	3	3	-
92856	China	C h R U Wt Y	2	Inter	3	-	-	2.0	1	4	2	-	3-5	2	3	-
92857	China	C h R U Wt Y	2	Inter	3	-	-	2.0	2	3	3	-	3-5	2	3	-
92858	China	C h R U Wt y	2	Inter	2	-	-	1.5	1	3	1	-	3-many	2	4	-
92859	China	C h R U Wt Y	2	Inter	2	-	-	1.75	1	3	3	-	3-many	2	4	-
92860	China	C h R U Wt Y	2	Inter	3	-	-	2.0	1	4	2	-	3-5	2	4	-
92861	China	C h R U wt Y	2	Inter	3	-	-	1.75	1	2	3	-	3-4	2	3	-
92862	China	C h R U Wt Y	2	Inter	3	-	-	2.0	1	3	2	-	3-5	2	3	-
92863	Manchuria	C h R U wt Y	2	Inter	3	-	-	1.75	2	2	3	-	5-many	2	3	-
92864	China	C h P R U wt Y	3	Inter	2	3	C	2.0	1	5	1	2	2-4	4	4	Susc.
92865	China	C h p R U wt Y	1	Erect	2	1	-	1.5	4	2	1	4	2	1	3	Susc.
92866	China	C h r U wt Y	2	Inter	2	-	-	0.75-1.0	5	5	1	-	2-3	1	4	-
93302	China	C h p r U Wt Y	3	Inter	2	1	-	1.0	2	4	1	3	2-3	1	3	Susc.
95583	Manchuria	C h R U Wt Y	1	Inter	2	-	-	1.75	1	3	2	-	3-5	2	3	-
95584	Manchuria	C h R U Wt Yy	2	Inter	2	-	-	2.25	1	3	1	-	many	2	4	-
95585	Manchuria	C h R U Wt Yy	2	Inter	3	-	-	2.0	1	4	3	-	3-many	2	4	-
95586	Manchuria	C h R U Wt Y	3	Inter	3	-	-	2.0	1	4	3	-	2-many	4	3	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
Type species, including f. pyriforme and var. cerasiforme																
95587	Manchuria	C h R U wt Y	3	Inter	3	-	-	1.25	1	4	3	-	2-5	2	3	-
95588	Manchuria	C h p r U wt Y	3	Prostr	2	-	-	1.0	1	5	1	-	3-5	1	5	-
95589	Manchuria	C h R U Wt Y	2	Inter	2	-	-	2.0	1	5	1	-	many	2	5	-
95590	Manchuria	C h R U Wt Y	3	Inter	3	-	-	2.0	1	4	1	-	many	2	3	-
95592	Manchuria	C h Rr U Wt Y	3	Inter	3	-	-	1.5	1	4	1	-	4-many	2	3	-
97321	Mexico	C h P R U Wt Yy	3	Inter	3	3	R	1.25	1	3	3	2	2-4	1	3	Susc.
97538	Argentina	C h p R U Wt Yy	4	Inter	4	3	C	1.5	1	4	1	2	3-5	2	4	Susc.
99782	Peru	C h p R U Wt Y	2	Inter	3	1	-	1.5	1	5	1	4	many	2	5	Susc.
100697	Peru	C h P R U wt y	3	Inter	3	2	C	1.0	1	5	1	1	3-many	5	4	Susc.
102714	U.S.S.R.	C h R U Wt Y	2	Inter	2	-	-	2.75	1	3	2	-	many	1	2	-
102715	U.S.S.R.	C h R U Wt Y	2	Inter	3	-	-	2.0	1	3	1	-	3-many	1	4	-
102716	U.S.S.R.	C h R U wt Y	2	Inter	2	-	-	1.5	1	3	1	-	many	1	3	-
102717	U.S.S.R.	C h p R U Wt Y	4	Inter	3	2	C	1.5	2	5	1	2	3-many	1	4	Susc.
102719	U.S.S.R.	C h R U Wt Y	2	Inter	2	-	-	1.0	2	3	1	-	3-many	1	3	-
102720	U.S.S.R.	C h R U Wt Y	2	Inter	3	-	-	2.0	1	3	1	-	4-many	2	4	-
102721	U.S.S.R.	C h R U Wt Y	3	Erect	3	-	-	2.0	1	3	3	-	many	2	1	-
102722	U.S.S.R.	C h R U Wt Y	1	Inter	3	-	-	2.0	2	1	1	-	3-5	2	4	-
102724	U.S.S.R.	C h p R U wt Y	3	Inter	4	3	C	2.25	1	2	5	1	3-5	4	5	Susc.
102725	U.S.S.R.	C h R U wt Y	2	Inter	3	-	-	2.25	1	3	1	-	4-5	2	5	-
102884	China	C h R U wt Y	1	Inter	2	-	-	2.25	1	3	1	-	many	2	5	-
102885	China	C h R U Wt Y	1	Inter	1	-	-	2.0	1	2	1	-	many	2	3	-
102886	China	C h R U Wt Y	3	Prostr	2	-	-	2.25	1	5	1	-	many	2	3	-
103055	China	C h P R U wt Y	3	Inter	3	2	R	2.50	1	3	3	4	many	4	4	Susc.
105225	Australia	C h p R U Wt y	2	Inter	3	2	R	1.75	1	5	1	2	3-many	4	5	Susc.
105266	Turkey	C h R U wt Y	4	Inter	3	-	-	3.0	1	3	5	-	5-many	5	2	-
105267	Turkey	C h R U wt Y	4	Inter	3	-	-	2.25	1	3	5	-	3-many	2	2	-
105342	China	C h p R U wt y	1	Inter	3	3	C	2.0	1	3	1	3	3-many	1	5	Susc.
108244	Germany	C h rt U Wt Y	3	Prostr	1	-	-	1.0	2	3	5	-	2	1	4	-
108246	Germany	C h p R U Wt Y	2	Inter	3	3	R	1.0	5	1	1	3	2-3	1	3	Susc.
109112	Turkey	C h R U wt Y	4	Inter	2	-	-	2.75	1	3	3	-	many	5	3	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters					Fruit characters							Disease reaction	
						Cracking										
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
109216	Turkey	C h R U Wt Y	3	Inter	3	-	-	2.5	1	3	3	-	many	5	3	-
109512	Turkey	C h R U wt Y	2	Inter	2	-	-	2.0	1	4	1	-	many	4	5	-
109513	Turkey	C h R U Wt Y	3	Erect	3	-	-	2.5	1	3	5	-	many	4	1	-
110596	England	C H R u wt Y	4	Inter	3	-	-	1.0	3	4	3	-	2	1	4	-
110597	England	C h R U Wt y	4	Inter	2	-	-	1.25	5	5	1	-	2	1	3	-
114490	England	C h P Rr U Wt Y	3	Inter	3	1	-	1.0	1	3	3	3	2-3	1	4	Susc.
114965	Ceylon	C h R U Wt Yy	5	Inter	3	-	-	1.5	1	5	1	-	many	5	3	-
114966	Egypt	C h R U Wt Y	3	Inter	3	-	-	2.5	1	3	1	-	many	2	4	-
114968	Egypt	C h R U Wt Y	3	Inter	3	-	-	1.25	2	3	1	-	3	1	4	-
114969	India	C h R U Wt Y	4	Inter	1	-	-	1.0	2	5	2	-	2-3	1	3	-
115601	Turkey	C h R U Wt Y	3	Inter	1	-	-	2.5	1	5	1	-	many	2	5	-
116047	India	C h R U Wt Y	3	Inter	2	-	-	1.75	1	5	1	-	2-many	4	4	-
116219	Morocco	C h R U Wt Y	4	Inter	3	-	-	2.75	1	4	1	-	many	2	4	-
117222	Turkey	C h P R U Wt Y	3	Inter	3	1	-	1.25	All shapes	3	3	3	2-4	1	3	Susc.
117563	Brazil	C h R U Wt Y	5	Inter	3	-	-	1.75	3	4	2	-	2	1	4	-
117564	Brazil	C h R U Wt Y	5	Inter	3	-	-	1.75	5	5	1	-	2-3	1	4	-
117565	Brazil	C h R U Wt Y	5	Erect	3	-	-	2.5	1	2	3	-	4	2	4	-
117566	Brazil	C h R U wt Y	4	Inter	3	-	-	2.0	4	5	3	-	2	1	3	-
117567	Brazil	C h R U Wt Y	3	Inter	2	-	-	1.5	3	4	2	-	2-3	1	4	-
117897	Brazil	C h R U Wt Y	4	Inter	3	-	-	1.5	3	4	2	-	2-3	1	4	-
117898	Brazil	C h R U Wt Y	3	Prostr	3	-	-	1.5	3	5	3	-	2-3	1	3	-
117899	Brazil	C h R U Wt Y	2	Inter	2	-	-	1.5	3	5	3	-	2-3	1	4	-
117900	Brazil	C h R U Wt Y	5	Inter	3	-	-	2.5	1	3	2	-	many	2	3	-
118324	Brazil	C h R U Wt Y	4	Prostr	1	-	-	1.5	2	5	1	-	2-3	1	4	-
118325	Brazil	C h p R U Wt Y	2	Inter	3	1	-	2.5	4	5	2	3	2-3	1	4	Susc.
118326	Brazil	C h R U Wt Y	4	Inter	3	-	-	2.5	1	3	1	-	many	5	5	-
118327	Brazil	C h R U Wt Yy	4	Inter	3	-	-	2.5	1	2	4	-	many	2	3	-
118404	Venezuela	C h R U Wt y	4	Inter	3	-	-	3.0	1	4	1	-	many	5	4	-
118406	Venezuela	C h R U Wt Yy	3	Inter	3	-	-	2.0	1	3	3	-	many	5	2	-
118408	Venezuela	C h R U Wt y	3	Inter	3	-	-	2.0	1	3	1	-	many	4	1	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
118611	India	C h R U Wt Y	5	Inter	3	-	-	1.5	2	4	3	-	3-many	1	1	-
118685	Brazil	C h p R U Wt Y	2	Inter	3	2	C	2.5	1	2	2	2	2-many	4	2	Susc.
118778	Brazil	C h p R U wt Y	3	Inter	5	1	-	1.0	3	1	3	3	2-3	1	1	Susc.
118782	Venezuela	C h p R U wt Y	3	Inter	4	2	C	2.5	1	3	2	1	many	5	3	Susc.
118783	Venezuela	C h p R U wt Y	5	Inter	4	2	C	2.25	1	2	4	2	many	5	5	Susc.
118785	Venezuela	C h p R U wt Y	3	Inter	3	1	-	1.5	1	4	2	1	4-5	1	3	Susc.
118787	Venezuela	C h p R U wt Y	3	Inter	3	2	C	2.5	1	3	5	3	many	5	4	Susc.
118788	Venezuela	C h p R U Wt Y	5	Inter	4	1	-	2.25	1	2	3	2	4-many	5	2	Susc.
118789	Venezuela	C h p R U wt Y	3	Inter	3	1	-	2.0	1	1	5	3	many	5	2	Susc.
118790	Venezuela	C h p R U Wt y	5	Inter	3	1	-	1.0	1	1	4	1	3	1	3	Susc.
119105	Brazil	C h p R U wt Y	3	Inter	4	3	C	1.75	1	4	3	3	2-3	1	1	Susc.
119215	Venezuela	C h p R U wt Y	2	Inter	3	2	C	1.25	1	2	3	3	2-3	2	1	Susc.
119416	Venezuela	C h R U Wt Yy	3	Erect	2	-	-	3.0-3.5	1	3	4	-	many	5	3	-
119776	Argentina	C h p R U Wt Y	2	Inter	3	3	C	2.75	1	2	4	3	many	4	3	Susc.
119777	Argentina	C h R U Wt Y	5	Inter	5	-	-	2.5	1	3	4	-	many	2	3	-
119778	Argentina	C h p R U wt Y	2	Inter	4	2	C	2.5	1	3	1	2	many	4	4	Susc.
120253	Turkey	C h R U Wt Yy	3	Inter	3	-	-	2.0	1	3	1	-	4-many	2	4	-
120254	Turkey	C h R U Wt Y	3	Inter	3	-	-	2.5	1	3	3	-	4-many	5	4	-
120256	Turkey	C h R U wt Yy	3	Erect	3	-	-	2.0-3.0	1	2	3	-	many	4	3	-
120257	Turkey	C h R U Wt Y	5	Erect	3	-	-	2.0-2.5	1	1	5	-	many	4	2	-
120258	Turkey	C h R U Wt Y	4	Erect	3	-	-	2.5	1	2	5	-	many	4	3	-
120259	Turkey	C h R U wt Y	3	Inter	3	-	-	2.0	1	1	4	-	many	4	2	-
120260	Turkey	C h R U wt Y	3	Inter	3	-	-	2.0-3.0	1	2	4	-	many	4	3	-
120261	Turkey	C h R U Wt Y	1	Erect	3	-	-	2.0-3.0	1	2	5	-	many	4	2	-
120262	Turkey	C h R U Wt Y	5	Inter	2	-	-	1.25	2	4	4	-	2-3	2	3	-
120263	Turkey	C h R U Wt Y	2	Inter	3	-	-	2.25	1	4	2	3	2-many	1	4	-
120264	Turkey	C h p R U Wt Y	3	Inter	3	2	C	1.5	1	4	2	3	2-many	1	3	Susc.
120265	Turkey	C h R U Wt Y	2	Inter	3	-	-	1.25	2	3	2	-	3	1	3	-
120266	Turkey	C h R U Wt Y	3	Erect	3	-	-	2.0	1	2	1	-	5-many	2	2	-
120267	Turkey	C h R U Wt Y	5	Inter	5	-	-	1.25	1	3	3	-	3-4	1	2	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters					Fruit characters							Disease reaction	
						Cracking										
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
120268	Turkey	C h R U Wt Y	1	Inter	3	-	-	1.25	1	3	3	-	3-5	1	3	-
120269	Turkey	C h R U Wt Y	3	Inter	3	-	-	3.0	1	1	5	-	many	4	3	-
120270	Turkey	C h R U Wt Y	2	Inter	3	-	-	1.5	5	3	4	-	2-3	1	3	-
120271	Turkey	C h R U Wt Y	3	Inter	3	-	-	3.0	1	2	5	-	many	5	3	-
120272	Turkey	C h R U Wt Y	3	Erect	3	-	-	2.25	1	2	5	-	many	4	3	-
120273	Turkey	C h R U wt Y	3	Inter	2	-	-	2.5	1	2	4	-	many	4	4	-
120274	Turkey	C h R U wt Y	4	Erect	3	-	-	2.75	1	3	4	-	many	4	3	-
120275	Turkey	C h R U Wt Y	4	Erect	4	-	-	3.25	1	1	3	-	many	4	3	-
120276	Turkey	C h R U wt Y	4	Erect	4	-	-	3.0	1	1	5	-	many	4	3	-
120277	Turkey	C h R U Wt Y	3	Inter	3	-	-	2.25	1	2	3	-	many	4	5	-
120278	Turkey	C h R U Wt Y	2	Prostr	3	-	-	2.25	1	3	1	-	many	4	5	-
121345	Turkey	C h R U Wt Yy	4	Inter	3	-	-	2.25	1	3	2	-	3-many	2	3	-
121436	India	C h R U Wt Y	1	Inter	3	-	-	1.75	1	3	3	-	5	2	2	-
121437	India	c h R U Wt Y	3	Inter	2	-	-	1.25	2	3	3	-	3-many	2	2	-
121438	India	C h R U Wt Yy	2	Inter	2	-	-	1.0	1	5	2	-	2-4	1	3	-
123538	India	C h p R U Wt y	2	Inter	3	2	C	1.75	1	2	3	2	3-5	2	2	Susc.
124034	Peru	C h R U Wt y	2	Inter	3	1	-	2.75	1	3	3	3	many	4	3	Susc.
124035	Peru	C h R U Wt Y	3	Inter	4	-	-	2.25	1	2	4	-	many	4	3	-
124036	Argentina	C h R U Wt Y	3	Erect	3	-	-	1.0-2.5	3	5	3	-	2	-	3	-
124037	Chile	C h R U Wt Y	3	Erect	4	-	-	2.5	1	2	5	-	5-many	2	1	-
124038	Peru	C h R U Wt Y	4	Prostr	3	-	-	1.0	1	3	1	-	many	2	5	-
124133	India	C h p R U Wt Y	2	Inter	3	2	C	1.25	3	3	2	2	2-4	1	2	Susc.
124161	Guatemala	C h R U Wt Y	3	Inter	3	-	-	1.25	1	3	3	-	many	2	2	-
124162	Guatemala	C h R U Wt Y	3	Erect	4	-	-	1.5	1	2	5	-	4	2	1	-
124163	Guatemala	C h R U Wt Yy	4	Inter	3	-	-	1.0	2	3	3	-	2-3	1	1	-
124165	Venezuela	C h P R U Wt Y	3	Erect	2	-	-	1.0	1	4	3	-	4-many	2	2	Susc.
124235	India	C h R U Wt Yy	3	Inter	3	-	-	3.0	1	3	1	-	many	2	4	-
124473	India	C h R U Wt Yy	4	Inter	3	-	-	2.25	1	3	2	-	many	5	2	-
124474	India	C h R U Wt Y	3	Inter	3	-	-	1.5	1	3	2	-	3-many	4	3	-
124581	India	C h p R U Wt Y	2	Inter	3	3	R	2.0	1	4	1	3	3-4	2	3	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters							Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
124582	India	C h R U wt Y	3	Inter	3	-	-	2.5	1	3	1	-	many	5	3	-
125830	Afghanistan	C h p R U Wt Y	3	Inter	3	3	C	1.5	1	1	2	5	3-many	5	1	Susc.
125831	Afghanistan	C h p t U wt Y	3	Erect	4	1	-	2.5	1	3	1	4	many	4	2	Susc.
126407	Panama	C h p R U Wt Y	3	Inter	3	3	C	1.75	1	4	1	2	3-many	4	4	Susc.
126408	Panama	C h p R U Wt Y	2	Inter	3	2	C	1.5	1	3	1	5	3-5	2	3	Susc.
126409	Peru	C h p R U Wt Y	3	Erect	3	1	-	1.5	1	3	1	4	3-many	1	2	Susc.
126410	Peru	C h p R U Wt Y	3	Erect	3	1	-	1.5	1	2	2	4	3-many	4	3	Susc.
126411	Peru	C h p R U Wt Y	3	Inter	3	2	R	1.5	2	5	1	3	3-many	1	5	Susc.
126412	Peru	C h R U Wt y	2	Inter	3	1	-	2.0	1	4	5	1	many	4	3	Susc.
126413	Peru	C h r U Wt Y	2	Inter	3	2	C	2.5	1	4	5	1	many	4	2	Susc.
126414	Peru	C h R U Wt y	3	Inter	3	2	R	1.75	1	1	5	2	many	4	1	Susc.
126415	Peru	C h p R U Wt y	3	Inter	2	1	-	1.5	1	2	2	3	many	1	1	Susc.
126416	Peru	C h R U Wt Y	4	Inter	3	-	-	1.25	1	4	2	-	3-many	1	5	-
126417	Peru	C h R U Wt Y	2	Erect	3	1	-	1.25	3	1	3	3	2-3	1	2	Susc.
126418	Peru	C h R U Wt Y	3	Inter	2	1	-	1.5	1	3	2	4	2-many	1	2	Susc.
126419	Peru	C h p R U Wt Y	3	Inter	3	2	R	1.75	1	4	3	4	many	4	4	Susc.
126420	Peru	C h p R U Wt Y	3	Inter	3	2	C	1.75	3	2	2	4	3	1	3	Susc.
126421	Peru	C h p R U Wt Y	3	Inter	4	1	-	1.75	1	3	4	4	many	2	2	Susc.
126422	Peru	C h P R U Wt Y	2	Inter	2	2	C	1.5	1	3	4	4	3-many	4	3	Susc.
126423	Peru	C h p R U wt Y	2	Inter	2	2	C	1.5	1	3	1	4	many	4	5	Susc.
126424	Peru	C h P R U wt Y	2	Inter	1	1	-	1.0	3	4	3	3	3-many	1	3	Susc.
126425	Peru	C h p R U wt Y	2	Inter	2	1	-	1.0	2	3	2	4	2-3	2	1	Susc.
126426	Peru	C h R U wt Y	3	Erect	2	2	C	2.5	1	3	5	4	many	5	3	Susc.
126427	Peru	C h p R t U Wt Y	3	Inter	3	2	C	1.5	1	1	1	4	3-many	2	2	Susc.
126428	Peru	C h P R U wt y	3	Inter	3	3	R	1.5	1	3	1	4	4-many	1	2	Susc.
126429	Peru	C h P R U wt Y	3	Inter	3	1	-	1.25	2	1	2	3	3-many	1	3	Susc.
126451	Peru	C h p R U wt Y	2	Inter	2	4	R	1.75	1	4	2	2	many	5	2	Susc.
126452	Peru	C h p R U Wt y	2	Inter	2	5	R	1.25	2	2	2	2	3-many	1	2	Susc.
126906	Peru	C H P R U wt y	3	Inter	2	2	C	2.25	1	2	3	3	3-many	2	3	Susc.
126907	Peru	C H p R U Wt Y	2	Inter	2	3	C	2.0	1	2	1	2	many	5	5	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters							Fruit characters						Disease reaction	
						Cracking											
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size Inches		Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
Type species, including f. pyriforme and var. cerasiforme																	
126908	Peru	C H P R U wt Y	3	Inter	3	5	C	1.5		1	4	2	2	many	4	5	Susc.
126909	Peru	C H P R U Wt Y	3	Inter	3	3	C	1.75		1	3	2	1	many	4	5	Susc.
126910	Peru	C h P R U wt y	3	Inter	3	2	C	1.5		1	5	2	2	3-many	2	5	Susc.
126911	Peru	C h p R U Wt Y	3	Inter	3	2	R	1.75		1	5	3	1	many	5	5	Susc.
126913	Peru	C h R U Wt Yy	3	Inter	3	-	-	1.25		1	4	1	-	4-many	4	5	-
126914	Peru	C h p R U Wt Y	3	Prostr	3	2	C	0.75		1	1	2	3	3-many	4	3	Susc.
126916	Peru	C h p R U wt Y	3	Inter	3	2	R	2.0		1	4	2	1	many	5	3	Susc.
126917	Peru	C h R U Wt Y	3	Inter	2	-	-	1.25		1	4	1	-	many	5	5	-
126918	Peru	C h R U Wt Y	3	Inter	2	-	-	1.5		1	3	4	-	3-many	4	1	-
126919	Peru	C h p U wt Y	3	Erect	2	2	C	2.25		1	1	5	1	3-many	4	3	Susc.
126920	Peru	C h p R U wt Y	3	Inter	2	2	C	2.0		1	2	1	5	many	5	2	Susc.
126921	Peru	C H P R U wt Y	4	Inter	3	2	C-R	1.5		1	4	2	3	many	5	4	Susc.
126922	Peru	C h p R U wt Y	3	Inter	2	2	C	1.5		1	3	1	4	2-many	1	1	Susc.
126942	Peru	C h p R U wt Y	3	Inter	3	1	-	0.62		2	3	1	2	2-3	1	1	Susc.
126950	Peru	C h p R U Wt Y	3	Inter	3	2	C	1.25		1	4	2	3	4-many	2	3	Susc.
126955	Peru	C h R U Wt Yy	2	Inter	3	-	-	1.25		5	3	1	-	2-many	1	4	-
127467	Afghanistan	C h p R U wt Y	4	Inter	4	3	C	1.5		1	3	3	3	2-many	2	3	Susc.
127468	Afghanistan	C h p R U wt Y	4	Inter	2	2	C	1.5		1	1	1	3	2-many	1	2	Susc.
127794	Peru	C h p R U wt Y	5	Inter	4	2	C	2.25		1	2	1	4	many	5	3	Susc.
127795	Peru	C h p R U wt Y	4	Inter	3	1	-	1.75		1	2	2	5	many	4	1	Susc.
127796	Peru	C h P R U wt Y	3	Inter	4	2	R	2.25		1	3	2	1	many	4	4	Susc.
127797	Peru	C H P R U wt Y	3	Inter	3	4	C	2.0		1	4	2	2	many	4	5	Susc.
127798	Peru	C H P R U Wt Y	3	Inter	4	4	R	2.0		1	4	1	3	many	5	2	Susc.
127800	Peru	C h p R U wt Y	3	Inter	4	3	C	2.25		1	1	1	4	many	4	5	Susc.
127801	Peru	C h P R U wt Y	3	Inter	4	2	R	2.0		1	2	2	4	many	4	5	Susc.
127803	Peru	C H P R U Wt Y	3	Inter	2	5	C	1.5		1	4	2	3	many	2	4	Susc.
127804	Peru	C h P R U wt Y	3	Inter	3	3	R	1.5		1	4	1	3	2-many	4	4	Susc.
127810	Peru	C h P R U Wt Y	3	Inter	3	2	R	1.25x2.5		5	3	2	3	2	1	2	Susc.
127811	Peru	C h p R U wt Y	3	Inter	3	2	R	1.5		1	1	2	3	2-4	1	1	Susc.
127812	Peru	C h p R U wt Yy	4	Inter	3	3	R	1.25		3	1	2	2	2-3	1	2	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
127813	Peru	C H P R U wt Y	4	Inter	4	3	C	1.5	3	2	2	1	2	1	1	Susc.
127814	Peru	C h p R U wt y	4	Inter	4	3	C	1.0	3	3	2	2	-	1	1	Susc.
127815	Peru	C h R U Wt Yy	4	Inter	3	-	-	1.0	1	3	2	-	3-5	2	2	-
127816	Peru	C H p R U wt y	3	Inter	3	3	C	1.25	1	1	1	2	many	5	4	Susc.
127817	Peru	C h p R U Wt y	4	Inter	4	3	R	1.0	3	4	1	3	2	1	3	Susc.
127818	Peru	C h P R U wt Y	3	Inter	4	3	C	2.5	1	2	3	3	many	4	3	Susc.
127819	Peru	C h P R U wt Y	3	Inter	3	2	C	2.5	1	3	1	4	many	5	3	Susc.
127820	Peru	C h P R U Wtwt Y	2	Inter	3	5	C	1.25	2	3	1	5	3	1	3	Susc.
127821	Peru	C h p R U Wt Y	3	Inter	3	1	-	2.0	1	4	2	4	many	4	4	Susc.
127822	Peru	C h p R U wt Y	2	Inter	2	2	R	2.0	1	2	1	2	many	4	4	Susc.
127823	Peru	C h p R U wt Y	3	Inter	3	3	C	2.25	1	2	1	4	many	5	3	Susc.
127824	Peru	C h P R U Wt Y	3	Inter	3	2	C-R	2.5	1	4	2	3	many	5	4	Susc.
127825	Peru	c h P R U wt Y	2	Inter	4	3	C	1.75	1	4	5	4	many	4	5	Susc.
128174	Guatemala	C h p R U Wt Y	3	Inter	3	1	-	1.0	1	3	3	4	many	2	2	Susc.
128215	Bolivia	C h p R U wt Y	3	Inter	3	3	C	1.5	1	2	1	4	many	1	2	Susc.
128216	Bolivia	C h R U Wt Y	4	Inter	3	-	-	1.25	2	2	3	-	3-4	1	1	-
128217	Bolivia	C h p R U wt Y	3	Inter	3	2	C	2.25	1	1	1	1	many	5	3	Susc.
128218	Bolivia	C h Rr U wt Y	4	Inter	3	-	-	2.5	1	1	1	-	many	5	1	-
128219	Bolivia	C h r U wt Y	4	Inter	2	-	-	2.0	1	3	1	-	many	5	2	-
128220	Bolivia	C h r U Wt Y	4	Erect	2	-	-	1.5	1	1	3	-	many	5	2	-
128221	Bolivia	C h p R U wt Y	3	Inter	3	2	R	1.75	1	4	1	1	many	5	2	Susc.
128222	Bolivia	C h p R U wt Y	3	Inter	3	2	C	1.25	2	4	1	2	3-many	1	3	Susc.
128223	Bolivia	C h p R U wt Y	3	Inter	3	2	C	2.25	1	3	1	3	many	4	3	Susc.
128224	Bolivia	C h p R U wt Y	3	Inter	4	5	R	2.0	1	4	2	3	3	2	3	Susc.
128225	Bolivia	C h p R U wt Y	3	Inter	3	2	C	2.5	1	1	1	2	many	5	3	Susc.
128226	Bolivia	C h Rr U Wt Y	3	Inter	3	-	-	2.5	1	3	3	-	many	5	2	-
128227	Bolivia	C h r U Wt Y	4	Inter	2	-	-	2.25	1	3	4	-	many	5	2	-
128228	Bolivia	C h R U Wt Y	5	Inter	3	-	-	1.75	1	3	2	-	4-many	5	2	-
128229	Bolivia	C h p R U wt Y	3	Inter	3	2	C	2.5	1	3	2	4	many	5	5	Susc.
128230	Bolivia	C h R U Wt Y	3	Inter	3	-	-	1.25	1	3	3	-	3-many	4	2	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size Inches	Shape	Set	Maturity	Intensity flesh color	Number loculies	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
128231	Bolivia	C h R U Wt Y	3	Inter	3	-	-	1.0-2.5	5	3	5	-	2	1	1	-
128232	Bolivia	C h R U Wt Y	3	Inter	3	-	-	1.25	5	3	1	-	2-many	1	3	-
128233	Bolivia	C h R U Wt Y	2	Erect	3	-	-	1.75	1	3	2	-	3-many	4	2	-
128234	Bolivia	C h p r U wt Y	3	Inter	3	2	R	2.5	1	2	3	3	many	5	3	Susc.
128235	Bolivia	C h R U Wt Y	3	Inter	3	-	-	2.0	1	3	2	-	many	5	1	-
128236	Bolivia	C h Rr U Wt Y	3	Inter	3	-	-	1.5	1	3	3	-	3-many	4	2	-
128237	Bolivia	C h p R U wt Y	2	Inter	2	2	R	1.5	1	2	2	3	3-many	4	3	Susc.
128238	Bolivia	C h R U Wt Y	3	Inter	3	-	-	1.0	3	3	2	-	2-many	2	3	-
128239	Bolivia	C h p R U wt Y	2	Inter	2	2	C	1.25	2	2	3	1	2-many	1	3	Susc.
128240	Bolivia	C h R U Wt Y	5	Erect	3	-	-	1.25	2	3	4	-	2-5	1	1	-
128241	Bolivia	C h p R U wt Y	3	Inter	2	3	C	1.5	1	1	2	4	many	4	2	Susc.
128242	Bolivia	C h p R U wt Y	3	Inter	2	2	C	1.5	1	3	1	4	many	4	2	Susc.
128243	Bolivia	C h p R U wt Y	3	Inter	2	3	C	1.75	1	1	2	3	many	4	1	Susc.
128244	Bolivia	C h R U Wt Y	2	Inter	3	-	-	1.0	2	2	4	-	3-many	1	1	-
128245	Bolivia	C h R U Wt Y	3	Inter	3	-	-	1.0	2	3	2	-	2-5	1	2	-
128246	Bolivia	C h R U Wt Y	3	Inter	3	-	-	1.0	2	3	4	-	2-5	1	1	-
128247	Bolivia	C h Rr U Wt Y	3	Inter	3	-	-	1.0	2	3	4	-	2-3	1	1	-
128248	Bolivia	C h P r U wt Y	2	Inter	2	1	-	1.75	1	4	1	3	3-4	1	1	Susc.
128249	Bolivia	C h Rr U Wt Y	5	Erect	2	-	-	1.13	2	3	2	-	3	1	1	-
128250	Bolivia	C h p r U wt Y	3	Inter	3	2	R	2.5	1	1	4	3	many	4	2	Susc.
128251	Bolivia	C h Rr U Wt Y	3	Inter	3	-	-	1.75	1	3	3	-	4-many	4	2	-
128252	Bolivia	C h R U Wt Y	3	Inter	3	-	-	2.0	1	3	2	-	2-many	5	2	-
128253	Bolivia	C h p r U wt Y	3	Inter	2	2	C	2.5	1	2	2	2	many	5	4	Susc.
128254	Bolivia	C h p R U wt Y	3	Inter	2	2	C	1.5	1	4	1	4	many	4	1	Susc.
128255	Bolivia	C h P R U wt Yy	2	Inter	3	2	C	2.5	1	5	1	2	many	5	3	Susc.
128256	Bolivia	C h p r U wt Y	3	Inter	3	-	-	2.5	1	3	2	2	many	5	3	Susc.
128257	Bolivia	C h P R U wt Y	3	Inter	2	2	C	2.5	1	3	1	3	many	5	3	Susc.
128258	Bolivia	C h R U wt Y	2	Inter	3	-	-	1.5	1	4	1	-	2-5	2	4	-
128259	Bolivia	C h R U Wt Y	3	Inter	3	-	-	2.0	1	2	4	-	4-many	2	3	-
128260	Bolivia	C h R U wt Y	4	Inter	3	-	-	1.25	3	4	4	-	2-3	1	3	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters							Disease reaction	
			Vine Size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation		Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme														
128261	Bolivia	C h R	U wt Y	3	Inter	3	-	-	1.75	1	4	1	-	4-many	2	3	-
128262	Bolivia	C h R	U wt y	3	Inter	3	-	-	1.25	2	3	1	-	3-5	2	3	-
128263	Bolivia	C h P R	U wt Y	3	Inter	3	2	R	2.0x1.5	5	3	2	4	2-3	1	2	Susc.
128264	Bolivia	C h R	U Wt Y	3	Inter	3	-	-	1.25	5	5	1	-	2-5	1	4	-
128265	Bolivia	C h r	U wt Y	3	Inter	3	-	-	1.25	5	4	5	-	2-4	2	3	-
128266	Bolivia	C h R	U wt Y	3	Inter	2	-	-	1.25	5	4	4	-	2-5	2	4	-
128267	Bolivia	C h r	U wt Y	3	Inter	2	-	-	1.25	2	3	4	-	2-5	1	3	-
128268	Bolivia	C h r	U Wt Y	3	Inter	2	-	-	1.25	2	3	4	-	2-4	1	4	-
128269	Bolivia	C h r	U wt Y	3	Erect	3	-	-	2.0	1	3	5	-	many	5	1	-
128270	Bolivia	C h P R	U Wt Y	3	Inter	4	2	R	2.75	1	4	1	4	4-many	2	3	Susc.
128271	Bolivia	C h p R	U wt Y	3	Inter	3	2	C	2.0x1.5	5	5	1	1	2	1	4	Susc.
128272	Argentina	C h R	U Wt Y	3	Inter	3	-	-	2.5	1	3	3	-	many	2	2	-
128273	Argentina	C h R	U Wt Y	2	Inter	3	-	-	1.0-2.5	4	5	3	-	2-3	-	2	-
128274	Argentina	C h p R	U wt Y	1	Inter	3	3	C	2.5	1	5	1	4	4-many	4	5	Susc.
128275	Argentina	C h P R	U wt Y	2	Inter	3	3	C	2.0	1	3	1	3	many	2	3	Susc.
128276	Argentina	C h R	U Wt Y	3	Inter	2	-	-	1.25	3	4	3	-	2-3	1	2	-
128277	Argentina	C h R	U Wt Y	3	Prostr	3	-	-	1.25	1	3	2	-	2-many	2	4	-
128278	Argentina	C h R	U wt Y	3	Inter	3	-	-	1.25	2	4	2	-	2-4	1	4	-
128279	Argentina	C h R	U Wt Y	2	Inter	3	-	-	1.0-2.5	4	4	1	-	2-3	-	3	-
128280	Argentina	C h R	U Wt Y	3	Inter	1	-	-	1.0-2.5	4	4	1	-	2-3	-	3	-
128281	Argentina	C h R	U Wt Y	3	Inter	2	-	-	1.5	3	4	1	-	2-4	2	5	-
128282	Argentina	C h p R	U Wt Y	2	Inter	3	2	C	2.5x1.5	4	4	1	2	2-3	1	2	Susc.
128283	Argentina	C h R	U Wt Y	2	Inter	1	-	-	1.25	2	3	1	-	2-5	2	5	-
128286	Argentina	C h p R	U wt Y	1	Inter	3	2	R	2.25	1	5	1	2	many	4	4	Susc.
128294	Argentina	C h p R	U wt Y	3	Inter	3	2	C	2.5	1	5	1	3	3-many	1	3	Susc.
128445	Argentina	C h R	U Wt Y	2	Inter	3	-	-	1.25	2	5	1	-	3-many	1	4	-
128446	Chile	C H P R	U wt Y	4	Inter	3	2	C	2.0	1	2	2	3	4-many	2	3	Susc.
128447	Chile	C h R	U Wt Y	4	Inter	4	-	-	2.5	1	2	5	-	5-many	2	2	-
128588	Chile	C h p R	U wt Y	4	Inter	3	2	R	3.0	1	1	4	4	many	4	2	Susc.
128590	Chile	C h R	U Wt Y	3	Inter	3	-	-	2.5	1	2	5	-	many	4	3	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
128593	Chile	C h R U Wt Y	2	Prostr	3	-	-	2.5	1	3	2	-	many	4	4	-
128594	Chile	C h p R U wt Y	2	Inter	4	2	R	3.5	1	2	4	3	many	4	3	Susc.
128595	Chile	C h P R U wt Y	3	Inter	3	1	-	1.5	1	4	1	1	2-5	2	2	Susc.
128596	Chile	C H P R U Wt Y	3	Erect	2	3	R	2.0	1	3	3	3	many	5	4	Susc.
128598	Chile	C h P R U Wt Y	2	Inter	3	3	R	2.5	1	1	1	3	many	2	5	Susc.
128599	Chile	C h p R U Wt Y	4	Inter	4	2	C	2.5	1	2	4	2	many	4	3	Susc.
128600	Chile	C h P R U wt Y	3	Inter	3	1	-	3.0	1	1	4	3	many	4	2	Susc.
128601	Chile	C h p R U wt Y	3	Inter	3	3	C	2.75	1	1	4	3	many	2	2	Susc.
128603	Chile	C h P R U wt y	4	Inter	4	2	C	2.75	1	3	4	4	many	5	3	Susc.
128604	Chile	C h P R U wt Y	3	Inter	4	2	C	2.75	1	2	3	3	4-many	4	3	Susc.
128607	Chile	C h P R U wt Y	4	Inter	5	2	R	2.5	1	4	3	3	many	5	4	Susc.
128608	Chile	C h P R U wt Y	4	Inter	5	2	R	3.25	1	4	5	3	many	4	5	Susc.
128611	Chile	C h R U wt y	3	Inter	4	-	-	2.25	1	3	2	-	many	2	2	-
128613	Chile	C h P R U wt Y	3	Inter	4	2	R	3.5	1	1	5	4	many	5	1	Susc.
128614	Chile	C h P R U wt Y	4	Erect	4	2	R	3.5	1	1	5	3	many	5	1	Susc.
128615	Chile	C h P R U wt Y	3	Inter	4	2	C	3.0	1	2	2	2	many	5	3	Susc.
128616	Chile	C h P R U wt Y	3	Inter	3	3	C	2.75	1	1	5	3	many	5	2	Susc.
128617	Chile	C H P R U wt Y	4	Inter	3	3	R	3.0	1	2	5	1	many	4	2	Susc.
128618	Chile	c h P R U wt Y	3	Inter	5	2	C	2.75	1	2	5	3	many	4	2	Susc.
128619	Chile	C H R U wt Y	3	Inter	3	-	-	2.5	1	3	5	-	many	5	3	-
128620	Chile	C h U wt Y	3	Inter	3	-	-	2.5	1	3	3	-	many	5	2	-
128621	Chile	C h P R U wt Y	4	Inter	4	2	R	3.0	1	2	4	3	many	5	3	Susc.
128623	Chile	C h P R U wt Y	5	Inter	4	2	C	3.0	1	1	4	4	many	5	2	Susc.
128624	Chile	C h R U wt Y	4	Inter	3	-	-	2.75	1	3	5	-	many	5	2	-
128625	Peru	c h P R U wt Y	3	Inter	5	3	C	1.75	1	3	1	3	many	4	4	Susc.
128626	Peru	C H P R U wt Y	5	Inter	3	2	R	2.25	1	2	5	3	many	4	2	Susc.
128627	Peru	C h R U wt Yy	4	Inter	3	-	-	2.5	1	3	1	-	many	4	2	-
128628	Peru	C h P R U wt Y	4	Inter	4	2	C	3.25	1	3	4	2	many	4	3	Susc.
128629	Peru	C h R U wt Y	4	Inter	3	-	-	2.5	1	2	5	-	many	4	1	-
128630	Peru	C h p R U wt Y	4	Inter	4	2	R	2.0	2	4	2	2	many	4	5	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters						Fruit characters							Disease reaction	
						Cracking											
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
128631	Peru	C h R U wt Y	3	Inter	3	-	-	1.5	1	4	1	-	many	4	4	-
128632	Peru	C H R U Wt Y	5	Inter	1	-	-	1.5	1	3	2	-	many	4	2	-
128633	Peru	C H P R U wt Y	4	Inter	3	3	C	2.0	1	5	1	3	many	4	5	Susc.
128634	Peru	C h p R U wt Y	4	Inter	3	3	C	2.5	1	4	2	3	many	4	3	Susc.
128635	Peru	C h P R U Wt Y	3	Inter	4	3	C	2.25	3	4	2	2	4-many	1	4	Susc.
128636	Peru	C h P R U wt Y	3	Inter	5	3	R	2.25	5	4	2	2	3-many	5	3	Susc.
128637	Peru	C h P R U wt Y	3	Inter	4	2	C	2.25	5	3	2	4	4-many	4	3	Susc.
128638	Peru	C h R U Wt Y	3	Inter	3	-	-	2.25	1	3	1	-	many	4	4	-
128640	Peru	c h p R U wt Y	4	Inter	5	1	-	3.25	1	1	4	3	many	4	2	Susc.
128641	Peru	C h p R U Wt Y	3	Inter	4	2	R	2.0	1	3	2	3	many	2	2	Susc.
128642	Peru	C h P R U wt Y	2	Inter	4	3	R	2.75	1	5	1	2	many	4	5	Susc.
128654	Chile	C h P R U Wt Yy	3	Inter	4	3	R	2.25	3	2	2	2	many	1	3	Susc.
128990	Argentina	C h R U Wt Y	4	Erect	3	-	-	1.0-2.5	4	5	2	-	2-3	1	3	-
129018	Peru	C h R U Wt Y	1	Inter	3	-	-	1.75	1	3	2	-	4-many	1	4	-
129019	Peru	C h P R U wt Y	3	Inter	4	3	C	2.0	3	4	2	2	3-many	1	5	Susc.
129025	Ecuador	C H p R U wt Y	5	Inter	2	2	C	2.25	1	4	5	3	many	5	5	Susc.
129026	Ecuador	C H R U wt Y	5	Inter	2	-	-	2.25	1	4	5	4	many	5	3	Susc.
129029	Ecuador	C H p R U Wt Y	4	Inter	3	2	C	1.0	1	5	2	3	2-3	2	3	Susc.
129031	Peru	C h R U Wt Y	3	Inter	3	-	-	1.25	1	4	5	-	3-many	5	4	-
129032	Ecuador	C H P R U wt Y	4	Inter	3	2	C	1.75	1	5	3	1	3-many	2	3	Susc.
129033	Ecuador	C H P R U wt Y	4	Erect	3	2	R	2.25	1	1	4	2	many	4	3	Susc.
129034	Ecuador	C H P R U wt Y	4	Inter	2	1	-	1.5	1	3	5	4	2-many	4	2	Susc.
129035	Ecuador	C h R U Y	3	Inter	3	-	-	2.5	1	3	1	-	many	2	5	-
129036	Ecuador	C h R U Wt Y	2	Inter	3	-	-	1.25	2	4	3	-	3-5	2	3	-
129037	Ecuador	C h R U Wt Y	3	Inter	2	-	-	1.25	1	3	2	-	4-many	2	3	-
129038	Ecuador	C h p R U wt Y	3	Inter	3	2	C	1.75	1	5	1	5	3-many	2	4	Susc.
129039	Ecuador	C h p R U wt Y	3	Inter	3	2	C	1.5	1	2	1	4	3	2	3	Susc.
129040	Ecuador	C h R U Wt Y	3	Inter	2	-	-	1.25	1	5	1	-	many	2	3	-
129041	Ecuador	C h R U Wt Y	3	Inter	3	-	-	1.0	5	5	3	-	2	1	3	-
129042	Ecuador	C h R U Wt Y	4	Inter	3	-	-	1.75	1	4	4	-	2-4	2	2	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
129044	Ecuador	C h p R U wt Y	4	Inter	4	2	C	2.0x1.75	5	3	4	2	2	1	3	Susc.
129045	Ecuador	C h R U wt Y	4	Inter	3	-	-	2.0	1	4	5	-	3-5	2	3	-
129046	Ecuador	C h R U Wt Y	3	Inter	2	-	-	1.5	1	4	4	-	3-5	2	3	-
129047	Ecuador	C h R U wt Y	4	Inter	3	-	-	1.5	3	3	5	-	2-5	2	2	-
129048	Ecuador	C h R U Wt Y	3	Inter	3	-	-	1.25x2.25	5	5	4	-	2-3	1	3	-
129049	Ecuador	C h R U Wt Y	4	Inter	3	-	-	1.5	3	4	5	-	2-3	2	2	-
129050	Ecuador	C h R U wt Y	3	Inter	3	-	-	1.25	2	3	5	-	2-4	1	2	-
129051	Ecuador	C h p R U wt Y	4	Inter	4	2	C	1.75	3	4	3	1	many	4	3	Susc.
129052	Ecuador	C h R U Wt Y	4	Inter	3	-	-	1.5	2	3	5	-	3-many	2	2	-
129053	Ecuador	C h p R U wt Y	5	Inter	4	2	C	1.75	1	2	5	3	many	4	1	Susc.
129054	Ecuador	C h p R U wt Y	5	Inter	4	1	-	1.75	1	4	4	3	2-many	2	2	Susc.
129055	Ecuador	C h P R U wt Y	2	Inter	4	2	R	1.5	1	1	5	3	3-many	2	2	Susc.
129056	Ecuador	C h p R U wt Y	5	Inter	4	2	C	1.75	1	2	4	3	3-many	2	3	Susc.
129057	Ecuador	C h p R U wt Y	5	Inter	4	2	C	1.75	1	1	4	2	4-many	4	2	Susc.
129058	Colombia	C h P R U wt Y	5	Inter	4	2	R	2.0	1	2	1	2	3-many	4	3	Susc.
129059	Colombia	C h R U Wt Y	4	Inter	3	-	-	1.0	2	4	2	-	2-4	1	2	-
129060	Colombia	C h P R U Wt Y	4	Inter	3	2	R	1.5	1	2	1	3	many	4	2	Susc.
129061	Colombia	C h P R U wt Y	3	Inter	4	2	C	2.0	1	2	3	3	many	2	3	Susc.
129063	Colombia	C h R U Wt Y	3	Inter	2	-	-	1.0	2	3	5	-	3-many	2	2	Susc.
129065	Colombia	C h p R U wt Y	3	Inter	3	2	C	1.25	1	4	1	4	3-4	1	3	Susc.
129066	Colombia	C h P R U wt Y	3	Inter	3	3	R	2.0	1	1	3	1	many	2	3	Susc.
129067	Colombia	C h R U Wt Y	3	Inter	3	-	-	1.5	1	1	3	-	many	4	2	-
129068	Colombia	C h P R U wt Y	4	Inter	4	2	R	2.5	1	1	4	4	many	4	2	Susc.
129069	Colombia	C h p R U Y	4	Inter	4	2	C	1.75	1	2	1	3	5-many	4	3	Susc.
129070	Colombia	C h P R U Wt Y	4	Inter	4	3	R	2.25	1	1	2	2	many	2	3	Susc.
129071	Colombia	C h P R U Wt Y	2	Inter	3	2	R	2.0x1.5	5	2	3	4	2-3	1	2	Susc.
129072	Colombia	C h P R U Wt Y	3	Inter	3	2	C	1.5	1	2	4	4	many	4	2	Susc.
129073	Colombia	C h p R U wt Y	2	Erect	3	3	R	2.5	1	1	3	3	many	4	3	Susc.
129075	Colombia	C h p R U wt Yy	3	Inter	3	3	C	2.0	1	3	3	3	many	4	3	Susc.
129076	Colombia	C h P R U wt y	4	Inter	4	2	R	2.0	1	3	2	2	many	4	3	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number loculies	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
129077	Colombia	C h P R U wt Y	4	Inter	4	3	C	2.5	1	2	3	3	many	4	3	Susc.
129078	Colombia	C h R U Wt Y	3	Inter	2	-	-	1.75	1	4	1	-	many	4	5	-
129079	Colombia	C h R U Wt Yy	3	Inter	2	-	-	1.5	1	4	2	-	4-many	2	3	-
129080	Colombia	C h P R U Wt Y	2	Erect	3	1	-	2.0	1	1	3	3	many	4	2	Susc.
129081	Colombia	C h p R U Wt Y	5	Erect	3	2	C	1.25	3	1	4	3	2-3	1	2	Susc.
129082	Colombia	C h p R U Wt Y	3	Inter	2	1	-	0.75	2	2	5	3	2	1	2	Susc.
129083	Colombia	C h R U Wt Y	3	Inter	3	-	-	1.0	1	4	3	-	3-5	2	2	-
129085	Colombia	C h R U wt Y	3	Inter	2	-	-	1.5	1	4	1	-	3-5	4	5	-
129086	Colombia	C h p R U Wt Y	4	Inter	3	2	R	1.75	1	4	1	4	many	1	3	Susc.
129087	Colombia	C h R U Wt Yy	2	Inter	2	-	-	1.25	1	3	3	-	4	1	1	-
129088	Colombia	C h R U Wt Yy	1	Inter	1	-	-	1.25	1	3	2	-	4	1	3	-
129091	Colombia	C h P R U Wt Y	3	Inter	3	1	-	0.75	2	3	3	1	2	1	2	Susc.
129022	Colombia	C h P R U Wt Y	3	Inter	3	2	R	1.5	1	5	1	3	3-4	1	2	Susc.
129093	Colombia	C h P R U Wt Y	3	Inter	3	2	R	1.25	1	4	1	4	2-many	1	3	Susc.
129094	Colombia	C h R U Wt Yy	4	Erect	2	-	-	1.25	1	4	3	-	3-many	2	1	-
129095	Colombia	C h p R U Wt Y	4	Inter	3	2	C	1.0	1	3	2	3	2-4	1	3	Susc.
129096	Colombia	C h P R U Wt y	2	Inter	3	1	-	1.0	5	3	3	1	2	1	3	Susc.
129097	Colombia	C h P R U Wt Y	2	Inter	2	1	-	0.5	2	2	3	1	2	1	2	Susc.
129098	Colombia	C h P U Wt Y	3	Inter	4	1	-	1.25	2	2	3	3	4-many	1	3	-
129099	Colombia	C h P R U Wt Y	2	Inter	2	1	-	0.5	2	3	3	3	2	1	3	Susc.
129101	Colombia	C h r u Wt Y	3	Inter	3	-	-	1.75	1	4	3	-	2-5	1	2	-
129102	Colombia	C h R U Wt y	5	Erect	3	-	-	1.0	1	3	4	-	3-many	2	2	-
129103	Colombia	C h P R U Wt Y	4	Inter	2	2	C	1.0	1	3	1	4	3-4	1	1	Susc.
129104	Colombia	C h p R U Wt Y	2	Inter	2	1	-	0.75	5	3	4	2	2	1	3	Susc.
129106	Colombia	C h P R U wt Y	4	Inter	3	2	C	1.5	3	4	1	3	3-many	2	4	Susc.
129107	Colombia	C h P R U Wt Y	4	Inter	3	2	C	1.0	2	5	1	3	3	1	2	Susc.
129109	Colombia	C h P R U wt Y	3	Inter	2	2	R	2.5	1	1	3	3	many	4	3	Susc.
129111	Colombia	C h R U Wt Y	4	Inter	2	-	-	1.0	2	4	2	-	2-many	1	2	-
129114	Colombia	C h P R U wt Y	3	Inter	3	3	C	1.5	1	5	1	2	many	4	3	Susc.
129115	Colombia	C h P R U Wt Y	3	Inter	3	2	R	1.75	1	3	1	3	many	4	3	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number loc-ules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
129117	Colombia	C h p R U wt Y	¼	Inter	2	2	C	1.5	1	1	¼	2	many	¼	¾	Susc.
129118	Colombia	C h P R U Wt Y	¾	Inter	2	2	R	1.5	1	2	1	¾	2-4	1	2	Susc.
129119	Colombia	C h p R U wt Y	¾	Inter	2	¾	C	1.25	2	¾	1	¾	¾-4	1	4	Susc.
129120	Colombia	C h R U Wt Y	½	Inter	2	-	-	1.0	2	¾	¾	-	2-¾	1	1	-
129122	Colombia	C h R U Wt Y	¾	Inter	2	-	-	0.75	2	4	2	-	¾-5	1	2	-
129123	Colombia	C h P R U Wt Y	¾	Inter	2	¾	C	1.0	1	4	1	¾	¾-4	1	¾	Susc.
129124	Colombia	C h R Wt Y	½	Erect	2	-	-	1.5	1	1	¾	-	many	½	½	-
129125	Colombia	C h p R U wt Y	2	Prostr	¾	2	C	2.0	1	2	1	¾	many	½	½	Susc.
129127	Panama	C h R U Wt Yy	¾	Inter	¾	-	-	2.5	1	2	¾	-	many	¼	¾	-
129128	Panama	C h R U Wt Y	¾	Prostr	¾	-	-	2.0	1	5	¾	-	many	4	4	-
129129	Panama	C h P R U Wt Y	2	Inter	¾	2	C	1.75	1	¾	1	¾	many	¼	5	Susc.
129130	Panama	C h P R U Wt y	¾	Inter	¾	2	R	2.25	1	¾	1	2	many	¼	5	Susc.
129131	Panama	C h P R U wt Yy	¼	Inter	¾	¾	R	2.0	1	5	1	¼	many	½	5	Susc.
129134	Argentina	C h p R U wt Y	¼	Inter	¼	2	C	2.75	1	¼	2	2	many	¼	¾	Susc.
129136	Panama	C h R U Wt Y	¾	Inter	¾	-	-	2.0	1	¾	5	-	2-many	4	¾	-
129137	Argentina	C h p R U wt Y	¼	Inter	5	5	R	2.5	1	¾	¼	¾	¼	2	¼	Susc.
129140	Argentina	C h p R U wt Y	¾	Inter	¾	2	C	1.75	¾	¼	1	5	2-many	1	4	Susc.
129141	Colombia	C h R U Wt Y	¾	Inter	2	-	-	1.0	1	5	2	-	¾	1	1	-
129142	Ecuador	C h R U Wt Y	¼	Inter	2	-	-	1.75	2	¾	¾	-	2-3	1	1	-
129687	Argentina	C h P R U wt Y	¾	Inter	¾	¾	C	2.0	2	4	2	2	2-many	1	4	Susc.
129688	Argentina	C h R U wt Y	2	Inter	2	-	-	2.0	1	5	1	-	many	½	¼	-
129689	Argentina	C h P R U wt Y	¾	Inter	¾	2	R	2.75	1	¾	2	¼	many	¼	4	Susc.
129691	Argentina	C h p R U wt Y	¾	Inter	¾	¾	C	2.5	1	4	1	¼	many	¼	4	Susc.
129692	Argentina	C h P R U wt Y	¾	Inter	¾	2	C	2.0	1	¾	1	¾	many	2	5	Susc.
129693	Peru	C H P R U Wt Y	¾	Inter	¾	2	R	2.25	1	5	1	¾	many	5	4	Susc.
129879	Peru	C h p R U Wt Y	2	Inter	¾	2	C	2.0x1.5	5	¼	1	¼	2-3	1	5	Susc.
129880	Peru	C h P R U wt Y	2	Inter	¾	¾	R	2.0x1.5	5	¾	1	¾	2	1	4	Susc.
129881	Peru	C h p R U Wt Y	2	Inter	¾	1	-	2.25x1.25	¾	2	2	¾	2	1	4	Susc.
129882	Peru	C h p R U wt Y	2	Inter	¾	¾	C	2.75	1	2	1	¾	many	5	5	Susc.
131877	Argentina	C h R U wt Y	¾	Inter	¾	-	-	2.5	1	1	5	2	many	4	4	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters						Fruit characters						Disease reaction	
						Cracking										
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
134207	India	C h R U Wt Y	3	Inter	3	-	-	2.25	1	3	2	-	4-many	1	3	-
134208	India	C h p R U wt Y	2	Erect	2	1	-	1.25	3	2	1	-	2-3	1	3	Susc.
135813	Afghanistan	C h R U Wt Y	2	Inter	3	-	-	1.5	1	2	2	-	5-many	4	3	-
135814	Afghanistan	C h R U Wt Y	3	Inter	3	-	-	1.5	1	4	3	-	3-many	4	3	-
135906	India	C h R U Wt Y	4	Inter	3	-	-	1.5	1	4	3	-	4	2	1	-
135907	Baluchistan	C h R U Wt Y	3	Inter	3	-	-	0.5	5	4	3	-	2-3	1	2	-
135908	Baluchistan	C h R U Wt Yy	3	Inter	3	-	-	1.5	1	3	3	-	3-5	2	1	-
136150	Canada	C h R U Wt Y	2	Prostr	2	-	-	2.0	1	4	2	-	3-many	2	3	-
136151	Canada	C h R U wt Y	3	Prostr	3	-	-	2.5	1	4	2	-	many	5	4	-
136152	Canada	C h R U Wt Y	2	Prostr	1	-	-	0.75	5	5	2	-	2	1	4	-
138617	Iran	C h R U Wt Y	2	Erect	3	-	-	1.25	1	4	3	-	3-4	2	4	-
138618	Iran	C R U Wt Y	5	Inter	3	-	-	1.0	2	3	5	-	2-3	1	1	-
138620	Iran	C h R U Wt Y	3	Inter	2	-	-	1.25	2	3	2	-	3-5	1	3	-
138621	Iran	C h R U Wt Y	3	Inter	3	-	-	2.25	1	1	2	-	many	4	3	-
138622	Iran	C h R U Wt Y	4	Inter	3	-	-	1.5	1	3	3	-	3-many	2	3	-
138624	Iran	C h R U Wt Y	2	Erect	3	-	-	3.0	1	1	2	-	many	4	3	-
138625	Iran	C h R U Wt Yy	3	Inter	1	-	-	1.5	1	2	2	-	3-many	2	3	-
138627	Iran	C h Rr U Wt Y	3	Inter	2	-	-	1.0	2	2	2	-	2	1	3	-
138628	Iran	C h R U Wt Y	2	Inter	2	-	-	1.25	2	3	4	-	3-5	1	3	-
138629	Iran	C h R U Wt Yy	2	Inter	2	-	-	2.25	1	2	4	-	many	5	3	-
138630	Iran	C h R U Wt Y	4	Erect	3	-	-	1.25	1	3	5	-	3	2	1	-
140051	Brazil	C h P R U wt Y	2	Inter	3	2	R	2.5	1	3	1	3	many	5	4	Susc.
140052	Brazil	C h P R U wt Y	3	Inter	1	2	R	2.0x1.5	5	3	1	4	2	1	3	Susc.
140160	Afghanistan	C h R U Wt Yy	4	Inter	2	-	-	2.25	1	2	5	-	3-many	4	3	-
140403	Iran	C h R U Wt Y	3	Inter	3	-	-	1.25	1	1	2	-	3-many	1	3	-
140404	Iran	C h R U Wt Yy	1	Inter	2	-	-	2.5	1	2	4	-	4-many	2	3	-
140405	Iran	C h R U Wt Yy	2	Erect	3	-	-	1.25	1	3	3	-	3-many	2	3	-
140406	Iran	C h R U Wt Y	3	Prostr	1	-	-	1.0-3.0	1	3	1	-	3-many	4	3	-
140407	Iran	C h Rr U Wt Yy	3	Inter	3	-	-	2.0	2	3	2	-	5	1	3	-
140408	Iran	C h R U wt Y	4	Prostr	2	-	-	1.0	2	4	3	-	2-5	1	3	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
140409	Iran	C h R U Wt Y	4	Inter	3	-	-	1.5	1	3	3	-	3-5	1	3	-
140410	Iran	C h R U wt Y	5	Inter	3	-	-	1.25	1	3	3	-	3-4	1	2	-
140411	Iran	C h R U Wt Y	4	Inter	3	-	-	2.5	1	1	4	-	many	2	4	-
140412	Iran	C h R U Wt Y	4	Inter	3	-	-	1.5-2.75	4	3	3	-	2	5	3	-
140413	Iran	C h R U Wt Y	5	Prostr	1	-	-	2.25	1	3	3	-	many	2	2	-
140414	Iran	C h R U Wt Y	4	Inter	3	-	-	1.0	2	3	3	-	2	1	3	-
140415	Iran	C h R U wt Y	3	Inter	1	-	-	0.75	2	3	3	-	2-4	1	4	-
140416	Iran	C h R U wt Y	2	Inter	3	-	-	1.25	2	3	5	-	2-4	1	3	-
140418	Iran	C h R U wt Y	3	Inter	3	-	-	1.75	1	2	3	-	2-many	1	4	-
140419	Iran	C h R U Wt Y	3	Inter	3	-	-	1.75	1	3	2	-	5-many	1	3	-
140420	Iran	C h R U wt Y	5	Inter	3	-	-	1.25	2	3	3	-	2-3	1	2	-
140421	Iran	C h R U Wt Y	5	Inter	4	-	-	2.5	1	1	4	-	2-many	2	3	-
140422	Iran	C h R U Wt Y	5	Inter	3	-	-	2.5	1	3	4	-	many	2	4	-
141273	Guatemala	C h R U Wt Yy	4	Inter	2	-	-	1.5	1	3	3	-	many	5	2	-
142697	Mexico	C h R U Wt y	3	Inter	2	-	-	3.5	1	3	3	-	many	5	3	-
142698	Mexico	C h R U Wt y	4	Prostr	3	-	-	2.5	5	4	3	-	many	4	4	-
142699	Mexico	C h R U Wt y	3	Prostr	3	-	-	2.5-4.0	1	3	3	-	many	5	4	-
142874	Iran	C h R U Wt Y	5	Inter	3	-	-	2.5	1	3	3	-	many	4	4	-
142875	Iran	C h R U Wt Y	2	Inter	2	-	-	2.25	1	2	3	-	many	4	4	-
142876	Iran	C h R U Wt Y	3	Erect	3	-	-	2.0	1	3	4	-	many	4	3	-
142877	Iran	C h R U Wt Yy	3	Inter	2	-	-	2.5	1	3	4	-	3-many	2	4	-
142878	Iran	C h R U Wt Y	1	Inter	3	-	-	1.5	1	1	4	-	many	2	4	-
142879	Iran	C h R U Wt Yy	3	Inter	3	-	-	2.0	1	3	5	-	many	2	3	-
142880	Iran	C h R U Wt Yy	4	Prostr	2	-	-	1.5	1	3	3	-	many	1	3	-
142881	Iran	C h R U Wt Y	3	Erect	3	-	-	2.25	1	2	3	-	many	5	3	-
142882	Iran	C h R U Wt Y	4	Erect	3	-	-	1.25	1	3	5	-	3-4	2	1	-
143523	Peru	C h R U Wt Yy	4	Inter	2	-	-	1.25	1	3	3	-	3-many	4	2	-
144579	Iran	C h R U Wt Yy	4	Inter	3	-	-	2.0	1	1	5	-	many	2	2	-
144680	Iran	C h R U wt Yy	4	Erect	4	-	-	1.5	5	3	4	-	2	1	2	-
146084	Iran	C h R U Wt Y	4	Inter	3	-	-	2.5	1	3	3	-	many	5	3	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters						Fruit characters						Disease reaction	
						Cracking										
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
146085	Iran	h t U Wt Y	4	Inter	-	-	-	1.25	1	4	3	-	2-3	1	4	-
146086	Iran	C h R U wt y	5	Inter	5	-	-	1.25-2.0	5	2	5	-	2	1	2	-
146087	Iran	C h R U Wt Y	3	Prostr	3	-	-	2.0-3.0	1	3	3	-	many	5	5	-
146088	Iran	C h R U Wt Y	1	Prostr	2	-	-	2.25	1	3	3	-	many	1	4	-
146091	Iran	C h R U Wt Y	1	Inter	3	-	-	1.5	2	3	3	-	2-4	1	4	-
146092	Iran	C h Rr U Wt Yy	3	Prostr	3	-	-	2.0-2.5	1	2	3	-	many	1	4	-
146093	Iran	C h R U Wt Y	3	Inter	2	-	-	1.0-1.5	2	4	3	-	many	1	4	-
146094	Iran	C h r U Wt Y	4	Inter	4	-	-	2.25	1	2	4	-	5	2	3	-
148654	Iran	C h Rr U Wt Yy	3	Prostr	2	-	-	2.0	1	3	3	-	many	2	4	-
148655	Iran	C h R U Wt Y	3	Inter	3	-	-	3.0	1	1	5	-	many	4	4	-
148720	Brazil	C h R U wt Y	4	Prostr	1	-	-	0.75-2.0	4	5	3	-	2	1	3	-
155367	Peru	C h P R U wt Y	3	Inter	3	2	R	1.75	1	3	2	5	2-many	2	4	Susc.
155370	Peru	C h p R U wt Y	2	Erect	2	1	-	1.0	1	1	2	3	2-3	1	3	Susc.
155372	Peru	C h P R U wt Y	3	Inter	2	1	-	1.13	1	3	1	2	3-4	1	4	Susc.
155373	Peru	C h P R U Wt Y	2	Inter	3	2	C	2.5	1	4	2	3	3-many	2	4	Susc.
155374	Peru	C h P R U wt Y	2	Inter	3	1	-	1.5	1	3	2	3	3	1	3	Susc.
155376	Peru	C h P R U wt Y	3	Inter	2	1	-	1.5	1	3	2	4	2-3	2	2	Susc.
155377	Peru	C h p R U wt Y	3	Erect	3	2	R	1.25	1	3	2	3	3-4	1	3	Susc.
157991	Italy	C h P R U wt Y	2	Inter	3	3	C	2.25	1	4	1	2	many	4	5	Susc.
159002	Peru	C h P R U Wt Y	2	Erect	3	2	C	2.0	3	1	2	-	3-4	1	2	Susc.
159003	Peru	C h P R U Wt Y	2	Inter	3	2	R	2.0	1	4	2	2	3-many	2	5	Susc.
159004	Peru	C h P R U Wt Y	2	Inter	3	3	R	2.5	3	2	2	3	3-4	2	3	Susc.
159005	Peru	C h P R U Wt Y	2	Inter	3	2	C	2.5	1	3	2	3	4-many	2	4	Susc.
159006	Peru	C h P R U Wt Y	3	Inter	3	2	C	2.25	1	4	2	2	3-many	2	4	Susc.
159008	Peru	C h P R U Wt Y	2	Inter	3	3	C	2.25	1	3	4	2	3-many	2	1	Susc.
159009	Peru	C h P R U Wt Y	2	Inter	3	3	C	2.5	1	3	2	4	many	2	5	Susc.
159181	Peru	C h P R U Wt Y	2	Inter	3	2	R	0.75	2	3	3	3	2	1	3	Susc.
159193	Peru	C h P Rr U Wt Yy	3	Inter	3	2	C-R	2.5	1	3	3	3	2-many	2	4	Susc.
159198	Peru	C h P R U Wt Y	2	Inter	3	2	C-R	2.0	1	3	3	3	2-4	2	4	Susc.
162679	Argentina-2	C h P R U wt Y	2	Inter	3	3	C	1.5	2	4	1	3	2-4	2	4	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters								Fruit characters							Disease reaction	
							Cracking												
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme																
163245	India-2	C	r	U	wt	Y	4	Inter	1	-	-	0.5-1.5	2	5	2	-	5-many	1	3	-
163247	India-2	C	R	U	wt	Y	2	Erect	3	-	-	3.5	1	1	3	-	many	4	3	-
163248	India-2	C	r	U	wt	Y	2	Inter	1	-	-	1.25	1	3	2	-	5-many	4	5	-
163249	India-2	C	R	U	Wt	Y	4	Erect	3	-	-	2.0	1	1	3	-	many	4	2	-
163251	India-2	C	R	U	Wt	Y	4	Erect	3	-	-	1.25	2	3	3	-	3-5	1	2	-
163252	India-2	C	R	U	Wt	Y	3	Erect	3	-	-	2.0	5	4	2	-	2-many	2	4	-
163253	India-2	C		U	Wt	Yy	3	Erect	3	-	-	1.0-3.5	1	4	2	-	2-many	4	4	-
163254	India-2	C	R	U	Wt	Yy	3	Erect	4	-	-	2.0	1	3	3	-	5-many	1	3	-
163255	India-2	C	R	U	Wt	Y	3	Inter	3	-	-	2.5	1	3	3	-	5-many	4	4	-
164177	India-3	C	R	U	Wt	Yy	3	Erect	3	-	-	1.5	1	3	3	-	5-many	4	3	Susc.
164278	India-4	C	R	U	Wt	Yy	3	Erect	3	-	-	1.0-2.5	1	2	2	-	4-many	1	4	Susc.
164290	India-4	C	R	U	Wt	Yy	2	Erect	3	-	-	1.5	1	3	2	-	many	4	4	Susc.
164478	India-4	C h	R	U	Wt	Y	3	Erect	3	-	-	2.5	1	3	2	-	many	4	4	Susc.
164482	India-4	C h	R	U	Wt	Y	3	Erect	3	-	-	2.0	1	2	2	-	many	4	3	Susc.
164541	India-4	C	R	U	Wt	Y	2	Erect	1	-	-	1.0	2	4	3	-	2-many	1	4	Susc.
164628	India-4	C	R	U	Wt	y	1	Erect	3	-	-	2.75	1	1	5	-	many	4	1	Susc.
164673	India-4	C h	R	U	Wt	Y	4	Erect	3	-	-	2.25	1	2	3	-	many	2	3	Susc.
164719	India-4	C h p	R	U	wt	Y	3	Erect	3	2	C	2.5	1	1	3	2	many	5	2	Susc.
164945	Turkey-5	C h	R	Uu	Wt	Y	1	Erect	3	-	-	3.0	1	2	1	-	many	1	5	-
164946	Turkey-5	C h	R	U	Wt	Y	3	Erect	3	-	-	3.0	1	3	3	-	many	4	3	-
164947	Turkey-5	C	R	U	wt	Y	1	Erect	3	-	-	2.0	1	3	2	-	many	1	4	-
165030	Turkey-5	C h	R	U	Wt	Y	3	Erect	3	-	-	3.0	1	1	5	-	many	4	2	-
165053	Turkey-5	C h	R	U	Wt	Y	2	Inter	3	-	-	2.0	1	3	1	-	many	2	3	-
166985	Turkey-7	C	R	U	Wt	Y	4	Erect	3	-	-	3.0	1	3	4	-	many	4	4	-
166986	Turkey-7	C	R	U	Wt	Y	4	Erect	4	-	-	2.5-4.0	1	1	5	-	many	4	2	-
166989	Turkey-7	C	R	U	Wt	Y	1	Erect	4	-	-	2.5	1	3	4	-	5	1	3	-
166991	Turkey-7	C	R	U	Wt	Y	1	Erect	3	-	-	3.0	1	3	5	-	many	2	3	-
167011	Turkey-7	C		U	Wt	Yy	4	Erect	3	-	-	3.0	1	2	5	-	many	4	1	-
167074	Turkey-7	C		U	Wt	Y	3	Inter	3	-	-	2.5	1	3	5	-	many	2	4	-
167099	Turkey-7	C	R	U	Wt	Y	3	Erect	3	-	-	2.5	1	1	5	-	5-many	4	2	-

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number loculues	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
167103	Turkey-7	C R U Wt Y	3	Inter	3	-	-	1.25-2.25	4	3	5	-	2	2	2	-
167141	Turkey-7	C R U Wt Y	2	Inter	3	-	-	2.25	1	3	1	-	many	4	5	-
167206	Turkey-7	C R Uu Wt Y	3	Inter	3	-	-	2.75	1	2	2	-	many	4	3	-
167329	Turkey-7	c R U Wt Y	3	Erect	5	-	-	2.75	1	3	1	-	many	4	5	-
169565	Turkey-9	C R U Wt Y	3	Inter	2	-	-	2.5	1	2	4	-	many	4	3	-
169566	Turkey-9	C R U Wt Y	4	Erect	3	-	-	3.5-4.0	1	1	5	-	many	4	3	-
169567	Turkey-9	C R U Wt Y	4	Erect	3	-	-	3.0	1	2	5	-	many	4	4	-
169568	Turkey-9	C R U wt Y	3	Erect	3	-	-	2.0	1	3	2	-	many	4	5	-
169569	Turkey-9	C R U Wt Y	3	Erect	2	-	-	3.5	1	2	5	-	many	2	1	-
169570	Turkey-9	c R U wt Y	3	Erect	5	-	-	3.0	1	2	5	-	many	4	3	-
169571	Turkey-9	C R U Wt Y	3	Erect	3	-	-	3.0	1	2	5	-	many	4	3	-
169572	Turkey-9	C R U Wt Y	3	Erect	2	-	-	2.5	1	1	4	-	many	4	2	-
169573	Turkey-9	C R U Wt Y	4	Erect	3	-	-	2.5	1	1	5	-	many	4	3	-
169574	Turkey-9	C h p R U Wt Y	1	Erect	2	1	-	0.62	3	1	5	-	2	2	3	Susc.
169575	Turkey-9	C h R U Wt Y	5	Erect	3	-	-	1.5	3	4	4	-	2-many	1	2	-
169576	Turkey-9	C R U Wt Y	2	Erect	3	-	-	3.0	1	2	2	-	many	4	3	-
169577	Turkey-9	C R U Wt Y	3	Erect	3	-	-	2.0	1	3	1	-	5-many	5	4	-
169579	Turkey-9	C U Wt Y	2	Erect	4	-	-	3.5	1	3	4	-	many	4	3	-
169580	Turkey-9	C R U Wt Y	3	Inter	4	-	-	4.0	1	2	4	-	many	4	4	-
169581	Turkey-9	C R U Wt Y	4	Erect	3	-	-	2.5	1	5	3	-	many	4	3	-
169582	Turkey-9	C R U Wt Y	4	Erect	3	-	-	2.75	1	3	3	-	many	4	3	-
169583	Turkey-9	C R U Wt Y	2	Erect	3	-	-	2.5	1	1	1	-	many	4	4	-
169584	Turkey-9	C R U wt Y	1	Inter	3	-	-	2.5	1	2	1	-	many	4	5	-
169586	Turkey-9	C R U Wt Y	3	Inter	3	-	-	3.0	1	3	3	-	many	2	4	-
169587	Turkey-9	C R U Wt Y	4	Erect	3	-	-	3.0	1	2	5	-	many	4	2	-
169588	Turkey-9	C R U Wt Y	2	Inter	3	-	-	3.0	1	2	3	-	many	4	3	-
169589	Turkey-9	C R Uu wt Y	3	Inter	3	-	-	2.5	1	2	5	-	many	4	3	-
169590	Turkey-9	C R U Wt Y	4	Erect	3	-	-	3.0	1	3	4	-	many	4	2	-
171708	Turkey-11	C h p R U Wt Y	3	Inter	3	3	C	2.0	1	1	5	3	many	5	3	Susc.
171709	Turkey-11	C h P R U Wt Y	3	Erect	3	2	R	2.75	1	1	5	3	many	4	3	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number loculues	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
171710	Turkey-11	C h p R U wt Y	3	Inter	3	2	C	3.0	1	1	4	3	many	4	3	Susc.
171711	Turkey-11	c h P R U wt Y	3	Erect	5	2	R	3.0	1	1	4	3	many	4	4	Susc.
171716	Turkey-11	c h P R U Wt Y	3	Erect	4	3	C	2.75	1	3	4	2	many	4	3	Susc.
171717	Turkey-11	C h P R U wt Y	3	Inter	3	2	R	2.5	1	3	2	4	4-many	5	3	Susc.
171718	Turkey-11	C h p R U Wt Y	3	Inter	3	2	C	1.75	1	4	4	2	2-many	4	3	Susc.
172968	Turkey-12	C h p R U wt Y	3	Inter	4	2	R	2.0	1	3	2	5	3-many	5	3	Susc.
172970	Turkey-12	C h p R U Wt Y	3	Inter	4	2	C	2.5	1	3	4	2	many	4	2	Susc.
172971	Turkey-12	h U Wt Y	2	Inter	4	-	-	3.0	1	3	5	-	many	2	3	-
172972	Turkey-12	C h P R U Wt Y	3	Inter	4	2	R	2.75	1	3	4	4	many	4	3	Susc.
172973	Turkey-12	C h p R U Wt Y	3	Inter	4	3	R	3.25	1	3	3	4	many	4	3	Susc.
172974	Turkey-12	C h P R U Wt Y	3	Inter	4	2	C	3.0	1	3	3	3	many	4	5	Susc.
172975	Turkey-12	C h p R U Wt Y	2	Inter	4	3	R	3.0	1	1	4	2	many	4	3	Susc.
172976	Turkey-12	C h p R u wt Y	3	Erect	3	3	C	2.75	1	1	4	3	many	5	3	Susc.
172977	Turkey-12	C h P R U Wt Y	3	Erect	4	2	R	3.25	1	1	4	2	many	4	3	Susc.
172978	Turkey-12	C h P R U Wt y	3	Erect	3	2	C	-	1	1	5	2	many	4	4	Susc.
173725	Turkey-13	C h P R U Wt Y	4	Inter	5	-	-	1.5-3.0	1	-	-	-	4-many	2	3	-
173726	Turkey-13	C h P R U Wt Y	4	Inter	5	-	-	3.0-4.0	1	-	-	-	5-many	4	3	-
174261	Turkey-13	C h P R U wt Y	3	Inter	3	3	C	1.75	1	4	2	3	2-many	4	4	Susc.
174262	Turkey-13	C h P R U wt Y	3	Inter	3	2	C	2.5	1	2	4	4	many	4	2	Susc.
174263	Turkey-13	C h p R U wt Y	3	Inter	4	3	R	2.75	1	3	3	4	many	5	3	Susc.
174264	Turkey-13	C h p R U wt Y	3	Inter	4	2	R	2.5	1	2	4	3	many	5	4	Susc.
174265	Turkey-13	C h p R U Wt Y	3	Inter	4	2	C	2.0	1	1	5	3	many	5	3	Susc.
174266	Turkey-13	C h p R U Wt Y	3	Erect	4	2	R	2.5	1	1	5	4	many	5	3	Susc.
174267	Turkey-13	C h P R U Wt Y	2	Erect	3	2	C	2.5	1	1	4	3	many	5	3	Susc.
174268	Turkey-13	C h P R U wt Y	1	Erect	3	3	C	2.5	1	1	4	3	many	5	2	Susc.
174269	Turkey-13	C h P R U Wt Y	2	Erect	4	3	R	3.0	1	1	5	1	many	4	2	Susc.
174270	Turkey-13	C h P R U Wt Y	1	Inter	4	2	C	2.75	1	5	1	2	many	2	5	Susc.
174879	India-14	C h P R U Wt Y	3	Inter	4	3	R	2.5	1	3	5	3	many	2	3	Susc.
175774	Turkey-15	C h P R U wt Y	3	Inter	4	2	C	2.5	1	2	3	3	3-many	5	4	Susc.
175775	Turkey-15	C h P R U Wt Y	3	Inter	4	2	C	2.75	1	4	3	4	many	4	5	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
175777	Turkey-15	C h P R U wt Y	3	Inter	4	2	R	2.5	1	1	4	3	3-many	4	3	Susc.
175778	Turkey-15	c h P R U Wt Y	3	Inter	5	2	C	2.75	1	4	4	2	many	4	5	Susc.
175779	Turkey-15	C h P R U Wt Y	3	Inter	4	2	R	2.5	1	4	2	2	many	4	5	Susc.
175780	Turkey-15	C h P R U wt Y	1	Inter	3	2	C	3.0	1	3	2	3	many	5	5	Susc.
175782	Turkey-15	C h P R U Wt Y	2	Inter	3	2	R	2.0	1	3	2	3	3-many	4	3	Susc.
175783	Turkey-15	C h P R U wt Y	3	Inter	4	3	R	2.5	1	2	3	4	4-many	4	2	Susc.
175784	Turkey-15	C h p R U Wt Y	3	Inter	3	2	C	2.0	1	4	2	3	3-many	4	3	Susc.
175785	Turkey-15	C h P R U Wt Y	3	Inter	3	2	R	2.0	1	4	2	3	2-many	4	3	Susc.
175786	Turkey-15	C h P R U Wt Y	3	Inter	3	2	C	2.0	1	3	2	4	3-many	4	3	Susc.
176625	Turkey-16	C h p R U Wt Y	3	Inter	4	2	R	2.5	1	1	5	2	2-many	4	2	Susc.
176626	Turkey-16	C h P R U Wt Y	3	Inter	4	3	C	2.75	1	2	5	2	many	4	2	Susc.
176627	Turkey-16	C h P R U Wt Y	3	Inter	4	2	R	2.0	1	1	2	4	3-many	2	2	Susc.
176628	Turkey-16	C h P R U Wt Y	3	Inter	3	2	C	2.0	1	2	2	3	2-many	4	3	Susc.
176629	Turkey-16	C h P R U Wt Y	3	Erect	3	2	R	2.75	1	1	2	3	many	4	3	Susc.
176630	Turkey-16	C h P R U Wt Y	3	Inter	3	3	C	2.75	1	2	1	2	many	4	3	Susc.
176631	Turkey-16	C h P R U Wt Y	3	Erect	3	3	C	3.0	1	1	5	2	many	4	3	Susc.
176632	Turkey-16	C h p R U Wt Y	3	Inter	3	2	R	3.25	1	1	5	2	many	4	3	Susc.
176633	Turkey-16	C h P R U Wt Y	3	Erect	3	2	R	2.75	1	2	2	2	many	4	3	Susc.
176634	Turkey-16	C h P R U Wt Y	1	Inter	4	2	C	2.75	1	4	3	3	many	4	5	Susc.
176636	Turkey-16	C h P R U Wt Y	4	Inter	4	2	R	3.0	1	1	5	3	many	5	2	Susc.
177006	Turkey-16	C h P R U Wt Y	3	Inter	4	2	R	2.75	1	3	4	3	many	5	3	Susc.
177007	Turkey-16	C h p R U wt Y	3	Erect	4	2	C	2.5	1	2	2	3	many	5	2	Susc.
177009	Turkey-16	C h P R U Wt Y	2	Inter	4	2	R	2.5	1	1	5	2	many	2	3	Susc.
177457	Turkey-17	C h P R U Wt Y	3	Inter	3	2	C	2.75	1	2	3	2	3-many	2	2	Susc.
177458	Turkey-17	C h P R U Wt Y	3	Erect	4	2	R	2.75	1	1	4	2	4-many	4	3	Susc.
177459	Turkey-17	C h P R U Wt Y	2	Erect	3	2	C	2.5	1	2	2	3	3-many	4	4	Susc.
177460	Turkey-17	C h P R U Wt Y	2	Inter	3	2	R	2.5	1	2	2	4	4-many	5	3	Susc.
178978	Turkey-18	C h P R U Wt Y	3	Erect	4	2	C	3.0	1	1	4	3	many	5	3	Susc.
178979	Turkey-18	C h P R U Wt Y	3	Inter	3	2	R	2.25	1	3	3	3	2-many	4	3	Susc.
179363	Turkey-18	C h P R U wt Y	2	Inter	3	3	C	2.75	1	4	1	4	many	4	5	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number loculies	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
185686	Guatemala-24	C h p R U wt Y	2	Erect	2	1	-	1.5x0.75	5	3	2	4	2	1	2	Susc.
193188	Cook Islands-30	C h p R U Wt Y	3	Inter	2	1	-	1.5	1	5	1	3	many	2	5	Susc.
193557	Ethiopia-30	C h P R U Wt Y	2	Inter	2	3	C-R	1.25	2	3	3	2	3-many	1	3	Susc.
194002	Ethiopia-30	C h P R U Wt Y	3	Inter	3	3	C	3.0	1	3	3	3	2	2	3	Susc.
194128	Cook Islands-30	C h P R U Wt Y	2	Inter	3	1	-	1.0	1	4	3	3	3-many	2	4	Susc.
194307	Ethiopia-31	C h p R U Wt Y	2	Inter	3	2	R	1.0	2	3	3	3	2-3	1	4	Susc.
194308	Ethiopia-31	C h P R U Wt Y	2	Inter	3	1	-	1.5-3.0	4	3	3	2	2	4	4	Susc.
194883	New York-31	C h P R U Wt y	2	Inter	2	4	C-R	1.25x1.75	5	3	4	2	2-3	2	-	Susc.
195001	Ethiopia-31	C h p R U Wt Y	2	Inter	1	2	C-R	1.25-2.0	4	3	3	3	2	2	4	Susc.
195002	Ethiopia-31	C h P R U Wt Y	2	Inter	3	2	R	1.25	1	3	3	3	2-many	2	4	Susc.
195004	Ethiopia-31	C h P R U Wt Y	3	Inter	3	2	C-R	2.25	1	3	3	3	many	4	3	Susc.
195005	Ethiopia-31	C h P R U Wt Y	2	Inter	3	2	C	1.25	2	4	3	2	2-3	1	3	Susc.
195323	Guatemala-31	C h p R U Wt Yy	2	Inter	3	2	C-R	1.25	2	3	3	3	2-3	1	3	Susc.
195615	Ethiopia-32	C h p R U Wt Y	2	Inter	3	2	C-R	1.25	2	3	3	2	2-3	1	3	Susc.
195615	Ethiopia-32	C h P R U Wt Y	2	Inter	3	2	C-R	1.25	2	3	3	3	2-3	1	3	Susc.
195777	Guatemala-32	C h P R U Wt Yy	2	Inter	3	3	C-R	1.0	2	4	3	2	2-many	2	4	Susc.
195778	Guatemala-32	C h P R U Wt Yy	2	Inter	2	2	C-R	1.75	1	4	3	3	3-many	4	4	Susc.
195779	Guatemala-32	C h P R U Wt Y	4	Inter	3	1	-	0.5	1	3	5	3	2	1	3	-
195780	Guatemala-32	C h P R U Wt Yy	2	Inter	3	2	R	1.5	1	4	3	4	many	4	4	Susc.
195782	Guatemala-32	C h P R U Wt Yy	2	Inter	2	2	R	1.0	2	4	3	3	2-many	1	4	Susc.
195783	Guatemala-32	C h P R U Wt Y	2	Inter	2	5	R	1.0	2	4	3	2	2-3	1	4	Susc.
195784	Guatemala-32	C h P R U Wt y	2	Inter	2	5	R	1.0	2	4	3	2	2-3	1	4	Susc.
195785	Guatemala-32	C h p R U Wt Yy	2	Inter	2	3	C-R	1.0	2	4	3	1	2	1	3	Susc.
195786	Guatemala-32	C h P R U Wt Y	2	Inter	2	4	C-R	1.25	2	4	3	3	2-many	1	3	Susc.
195787	Guatemala-32	C h P R U Wt Yy	2	Inter	2	3	R	0.75	2	4	3	2	2	1	3	Susc.
196004	Ethiopia-32	C h P R U Wt Y	2	Inter	3	2	C	1.25	2	4	3	3	2	1	3	Susc.
196005	Ethiopia-32	C h P R U Wt Y	2	Inter	3	4	C-R	2.0	1	3	3	4	2-many	4	3	Susc.
196297	Nicaragua-32	C h p R U Wt Y	2	Inter	2	1	-	1.5	1	4	3	2	many	4	4	Susc.
196298	Nicaragua-32	C h P R U Wt Y	2	Inter	2	2	R	2.0	1	4	3	3	many	5	4	Susc.
199142	Canada-34	C h P R U Wt y	2	Inter	2	2	C-R	2.25	1	3	2	2	5-many	2	-	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
			Type species, including f. pyriforme and var. cerasiforme													
185686	Guatemala-24	C h p R U wt Y	2	Erect	2	1	-	1.5x0.75	5	3	2	4	2	1	2	Susc.
193188	Cook Islands-30	C h p R U Wt Y	3	Inter	2	1	-	1.5	1	5	1	3	many	2	5	Susc.
195557	Ethiopia-30	C h P R U Wt Y	2	Inter	2	3	C-R	1.25	2	5	3	2	3-many	1	3	Susc.
194002	Ethiopia-30	C h P R U Wt Y	3	Inter	3	3	C	3.0	1	5	3	3	3	2	3	Susc.
194128	Cook Islands-30	C h P R U Wt Y	2	Inter	3	1	-	1.0	1	4	3	3	3-many	2	4	Susc.
194307	Ethiopia-31	C h p R U Wt Y	2	Inter	3	2	R	1.0	2	3	3	3	2-3	1	4	Susc.
194308	Ethiopia-31	C h P R U Wt Y	2	Inter	3	1	-	1.5-3.0	4	3	3	2	2	4	4	Susc.
194883	New York-31	C h P R U Wt y	2	Inter	2	4	C-R	1.25x1.75	5	3	4	2	2-3	2	-	Susc.
195001	Ethiopia-31	C h p R U Wt Y	2	Inter	1	2	C-R	1.25-2.0	4	3	3	3	2	2	4	Susc.
195002	Ethiopia-31	C h P R U Wt Y	2	Inter	3	2	R	1.25	1	3	3	3	2-many	2	4	Susc.
195004	Ethiopia-31	C h P R U Wt Y	3	Inter	3	2	C-R	2.25	1	3	3	3	many	4	3	Susc.
195005	Ethiopia-31	C h P R U Wt Y	2	Inter	3	2	C	1.25	2	4	3	2	2-3	1	3	Susc.
195323	Guatemala-31	C h p R U Wt Yy	2	Inter	3	2	C-R	1.25	2	3	3	3	2-3	1	3	Susc.
195615	Ethiopia-32	C h p R U Wt Y	2	Inter	3	2	C-R	1.25	2	3	3	2	2-3	1	3	Susc.
195615	Ethiopia-32	C h P R U Wt Y	2	Inter	3	2	C-R	1.25	2	3	3	3	2-3	1	3	Susc.
195777	Guatemala-32	C h P R U Wt Yy	2	Inter	3	3	C-R	1.0	2	4	3	2	2-many	2	4	Susc.
195778	Guatemala-32	C h P R U Wt Yy	2	Inter	2	2	C-R	1.75	1	4	2	3	3-many	4	4	Susc.
195779	Guatemala-32	C h P R U Wt Y	4	Inter	3	1	-	0.5	1	3	5	3	2	1	3	-
195780	Guatemala-32	C h P R U Wt Yy	2	Inter	3	2	R	1.5	1	4	3	4	many	4	4	Susc.
195782	Guatemala-32	C h P R U Wt Yy	2	Inter	2	2	R	1.0	2	4	3	3	2-many	1	4	Susc.
195783	Guatemala-32	C h P R U Wt Y	2	Inter	2	5	R	1.0	2	4	3	2	2-3	1	4	Susc.
195784	Guatemala-32	C h P R U Wt y	2	Inter	2	5	R	1.0	2	4	3	2	2-3	1	4	Susc.
195785	Guatemala-32	C h p R U Wt Yy	2	Inter	2	3	C-R	1.0	2	4	3	1	2	1	3	Susc.
195786	Guatemala-32	C h P R U Wt Y	2	Inter	2	4	C-R	1.25	2	4	3	3	2-many	1	3	Susc.
195787	Guatemala-32	C h P R U Wt Yy	2	Inter	2	3	R	0.75	2	4	3	2	2	1	3	Susc.
196004	Ethiopia-32	C h P R U Wt Y	2	Inter	3	2	C	1.25	2	4	3	3	2	1	3	Susc.
196005	Ethiopia-32	C h P R U Wt Y	2	Inter	3	4	C-R	2.0	1	3	3	4	2-many	4	3	Susc.
196297	Nicaragua-32	C h p R U Wt Y	2	Inter	2	1	-	1.5	1	4	3	2	many	4	4	Susc.
196298	Nicaragua-32	C h P R U Wt Y	2	Inter	2	2	R	2.0	1	4	3	3	many	5	4	Susc.
199742	Canada-34	C h P R U Wt y	2	Inter	2	2	C-R	2.25	1	3	2	2	5-many	2	-	Susc.

TABLE 7 (Continued)

PI number	Origin	Genotype	Vine and foliage characters			Cracking			Fruit characters						Disease reaction	
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation	Alternaria	Mosaic
		Type species, including f. pyriforme and var. cerasiforme														
205024	W.Va.No.882 -37	C h P R U Wt Y	1	Inter	2	1	-	1.75-2.0	3	3	4	3	3-many	1	-	Susc.
205025	W.Va.No.886-1 -37	C h P R U Wt Y	2	Inter	2	1	-	1.75-2.0	3	3	3	3	2-many	1	-	Susc.
205027	W.Va.No.888-1 -37	C h P R U Wt Y	2	Inter	2	1	-	1.0-2.75	2	3	3	3	3-many	2	-	Susc.
205031	W.Va.No.891-1 -37	C h P R U Wt Y	2	Inter	2	1	-	1.25-2.25	1	3	3	3	3-many	2	-	Susc.
205032	W.Va.No.891-2 -37	C h P R U Wt Y	2	Inter	2	1	-	1.5-2.5	1	3	3	4	3-many	2	-	Susc.
205034	W.Va.No.893-1 -37	C h P R U Wt Y	2	Inter	2	2	C	2.0-3.0	1	3	3	2	3-many	2	-	Susc.
205196	Turkey-37	C h P R U Wt Y	3	Inter	3	3	C-R	4.0	1	1	2	3	many	4-5	3	Susc.
205336	E. Africa-37	C h P R U Wt Y	3	Inter	3	2	R	1.0	5	5	3	3	2	2	3	Susc.
206000	Sweden-38	C h p R U Wt Y	1	Inter	2	5	C	2.0	1	4	3	3	3-many	2	-	-
206449	Turkey-38	C h P R U Wt Y	3	Inter	3	5-2	C-R	3.5	1	1	3	4	many	4	3	Susc.
206450	Turkey-38	C h P R U Wt Y	2	Inter	3	5-1	C-R	3.0	1	4	3	3	many	2	5	Susc.
206967	Turkey-38	C h P R U Wt Y	3	Inter	3	5	C	2.5	1	3	3	3	many	4	3	Susc.
206968	Turkey-38	C h P R U Wt Y	3	Inter	3	5-2	C-R	3.5	1	3	3	3	many	4	3	Susc.
208760	Cuba	C h P R U Wt Y	3	Inter	3	2	R	1.5	1	3	3	3	2-3	2	3	Susc.
208761	Cuba	C h P R U Wt Yy	3	Inter	3	2	C	2.0	3-5	1-3	3	3	2-3	1	3	Susc.
208835	Cuba	C h P R U Wt Y	3	Inter	3	2	C	1.5	1	4	3	3	3	1	2	Susc.
208836	Cuba	C h P R U Wt Y	3	Inter	3	2-2	C-R	2.0	1	3	3	3	3-many	1	3	Susc.
208837	Cuba	C h P R U Wt Y	3	Inter	3	5-2	C-R	2.5	1	3	3	3	3-many	2	2	Susc.
208838	Cuba	C h P R U Wt Y	3	Inter	3	5-3	C-R	2.25	1	3	3	3	3-5	1-2	2	Susc.
209048	Puerto Rico	C h P R U Wt Y	3	Inter	3	3-3	C-R	2.5	1	2	3	3	many	5	2	Susc.
209976	Bolivia	C h p R U Wt Y	3	Inter	3	5	C	1.5	1	3	2	3	many	4-5	3	Susc.
209977	Bolivia	C h P Rr U Wt Y	3	Inter	3	3-3	C-R	2.0	1	3	3	3	many	5	3	Susc.
212062	Costa Rica	C h p R U Wt Y	3	Inter	3	5-2	C-R	2.5	1	3	3	3	many	4	4	Susc.

TABLE 8

Classification and evaluation of the genetic stocks

PI number	Origin	Genotype	Vine and foliage characters			Fruit characters								
						Cracking								
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation
			a. Verified gene stocks											
79232	Peru	(l X)	4	Erect	1	1	-	0.37	2	4	3	-	2	1
193399	MacArthur 706	(d p o ne s bk) (r) (y)	1	Erect	4	2	C	1.5	5	4	4	4	2	1
193400	MacArthur 711	(dp) (r) (f lf j wt)	1	Erect	3	2	R	2.75x2.25	1	2	5	4	many	4
193401	MacArthur 804	(p ne) (y) (c sp) (a)	2	Inter	5	3	C	3.0	1	4	4	2	2-many	1
193402	MacArthur 902	(d) (r) (y) (c) (a) (l)	1	Erect	4	-	-	2.0	1	4	4	3	2-4	2
193403	MacArthur 3213	(d) (br) (f lf j wt) (H) (al) (dm)	Dwarf	Inter	1	-	-	1.75	1	3	5	3	many	4
193404	Lesley 507	(c) (l) (u H)	2	Inter	4	2	C	2.0	1	4	5	1	many	2
193405	Lesley 608	(p) (c) (f lf j)	4	Inter	3	2	R	2.0 x3.5	1	2	5	2	many	4
193407	Lesley 1040	(y) (wt n)	4	Inter	1	-	-	1.25x2.0	3	5	3	5	2	1
193409	Lindstrom 2391-2	(p) (y) (c) (a wt) (l)	1	Inter	5	2	R	2.5	1	5	4	2	4-many	1
193410	Lindstrom 2392-2	(p) (br y) (l)	5	Inter	4	-	-	1.75	1	2	5	4	2-3	2
193411	Lindstrom 2395-5	(y) (sp) (a)	2	Inter	3	3	C	3.0	1	3	3	4	many	1
193412	Lindstrom 2394-2	(d p) (r) (y) (c) (a) (l)	1	Erect	4	-	-	2.0	1	4	4	3	2-4	2
193415	Penn Orange E 160A	(y) (lf j wt) (u t)	3	Inter	3	2	C	3.25	1	1	3	4	many	1
193416	P.A. Young T328	(y) : pe	5	Inter	4	-	-	2.75	1	3	3	4	5	2
193417	P.A. Young T560	; pox	4	Inter	3	3	R	2.75	2	2	3	4	4-5	1
193418	P.A. Young T738	(wt n) (u)	3	Prostr	2	-	-	2.5	3	3	3	4	3-many	1
193419	P.A. Young G1074a	(y) (u t Xa)	1	Inter	1	3	C	1.5	2	3	3	3	2	1
193420	P.A. Young Y1105	(r wf)	3	Inter	3	2	R	3.0	1	4	3	3	3-many	1
193421	P.A. Young G1112	(sp) : ug	1	Inter	3	2	C	2.5	2	5	2	2	3-many	1
205035	J.P. McCollum	(Wo)	5	Erect	5	2	R	3.25	1	4	5	3	many	1
205036	P.A. Young 661E-16 Bull	(wf)	3	Inter	3	2	R	2.5	2-1	4	3	2	4-many	1
505037	Lindstrom 2074-3-M	(d) (l)	1	Erect	3	-	-	1.75	2	5	2	3	2-3	1
205038	Lindstrom 2217-1-2	(d p) (l)	1	Erect	3	-	-	1.75	2	5	2	3	2-3	1
205039	T.M. Currence Fs-5-12	(r) (c) (f a) (l)	4	Inter	5	-	-	3.25	1	3	5	1	many	4

TABLE 8 (Continued)

PI number	Origin	Genotype	Vine and foliage characters						Fruit characters						
						Cracking									
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size Inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation
		a. Verified gene stocks (Cont.)												
205040	Yellow Peach Fs-3	(p) (r) (y)	5	Erect	2	-	-	1.75	3	1	5	2	2-3	1
205041	P.A. Young T162 Fs-1	:marginal leaf chlorosis	5	Inter	3	2	R	3.0	1	2	4	3	4-many	1
205042	P.A. Young T667-1	(l wt n)	3	Inter	4	2	C	2.75	2	3	3	3	3-many	1
205043	P.A. Young G1075-5-1	(Wo) (r) (y) (c)	5	Erect	4	-	-	2.25	2	1	4	2	4-many	1
205044	P.A. Young T1077b-5	(wt) (l) (u) (e)	3	Erect	5	2	C-R	2.5	2-1	5	3	4	3-many	1
205045	P.A. Young G1078-5, MacA 42M	(lf? j) (bu)	1	Erect	2	3	C	2.5	1	5	2	5	many	1
205046	P.A. Young G1279-10	(d bk) (r) (sp) (wt) (dm)	Dwarf	Erect	1	-	-	1.0	5	5	1	3	3	1
212425	(PAY G1075xPennorange)-18-22-7-17	(Wo bk) (y) (c) (lf j wt) (t)	5	Erect	5	2	R	2.5	3	3	5	3	3-many	1
212426	PAY T585-18-M-3-M	(ne) (wt)	1	Inter	1	3	C-R	1.75	2	1	3	3	4-many	1
212427	Lindstrom 2218-1-4-M	(f) : rl	1	Erect	1	-	-	1.0	1	1	5	5	many	4
212428	(Pennorange x Currence sterile)-1-5-18-18	(y) (c) (f a lf j wt) (l) (u t)	3	Erect	3	2	R	3.25	1	3	5	1	many	4
212429	Pollack 1025-1-50 #17-168	(d) (r) (y) (c) (l) : pox	Dwarf	Erect	3	-	-	2.0	1	3	3	3	3-many	1
212430	Rick LA 64	: tf and abaxial wlity	3	Erect	5	-	-	2.0	2	3	3	3	3-many	1
212431	Jenkins 767	(br) (f lf j wt)	3	Inter	1	2	R	2.0	1	3	3	3	4-many	4
212432	Dennett MU 12	(sp) (u) : tf and abaxial wlity	3	Erect	5	-	-	2.0	2	3	3	3	3-many	1
212433	Burdick, X21-1-31-Rosette	(f lf j wt) (l)	3	Inter	3	-	-	2.0	1	3	1	3	many	4
224571	Lindstrom 2387-2-1-4	: v	2	Erect	2	2	R	2.0	2	3	3	3	5	1
224572	Rick 2-100	(wf) (sp) (n) : wd	2	Erect	5	2	C	3.0	2	5	3	4	3-5	1
224573	Rick LA 55	(p bk) : yv	1	Erect	3	1	-	1.0x3.0	4	4	5	3	2	1
224574	Butler	(d p bk) (lf j) (nc) (e) :pox	2	Erect	3	2	R	1.5	2	3	5	3	3	1
224575	Butler	(m) (y) (f) (t)	5	Inter	1	2	C	2.75	1	1	5	4	many	4
224576	Jenkins 234	(d) (c) (l) (uH) (dm)	1	Erect	5	1	-	1.0	1	1	5	1	many	4
224577	Dennett AP 5	(aw ol) (sp) (n) (u)	3	Inter	5	5	R	1.5	3	4	3	3	3	1
224578	P.A. Young G1071b	(r) (c) (lf j wt) (l) (mc)	1	Erect	5	1	-	1.75	1	1	5	3	3-6	2
224579	Butler	(f lf j) (bu) (H) (al)	1	Inter	3	3	R	2.0	1	5	3	5	many	3

TABLE 8 (Continued)

PI number	Origin	Genotype	Vine and foliage characters						Fruit characters					
						Cracking								
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation
			b. Tetraploids											
193408	Tomes 1880, L. plmp.	4n	5	Inter	3	-	-	0.75	2	5	3	2	2	1
193413	Lesley 4N-T160D Fs-1, L. escu.	4n (s) (n)	5	Erect	3	-	-	1.5	2	1	4	2	2	1
193414	Lesley 4N-T160D Fs-2, L. escu.	4n (r)	5	Erect	3	-	-	1.5	2	1	4	2	2	1
212434	Stokesdale colchicine, 7-1-M	4n	5	Inter	5	-	-	2.25	3	1	5	3	3-many	1
212435	Stokesdale colchicine, 7-2-M	4n	5	Inter	5	-	-	2.25	3	1	5	3	3-many	1
212436	Break O'Day colchicine, 16-2	4n	5	Inter	5	-	-	2.25	3	1	3	3	3-many	1
212437	Break O'Day colchicine, 28-3	4n	5	Inter	5	-	-	2.25	3	1	3	3	3-many	1
212439	Rick San Marzano	4n	3	Erect	3	-	-	0.75x2.75	4	1	3	3	2	1
212440	Rick Pearson	4n	5	Inter	5	-	-	2.0	1	1	5	2	many	2
212441	Burdick 216, L. plmp.	Auto-auto 4n	5	Inter	1	-	-	0.5	2	3	3	3	2	1
212445	Burdick 237, L. plmp.	Auto-auto 4n	5	Inter	1	-	-	0.5	2	2	3	3	2	1
224580	Bohn, L. plmp. PI 79532	4n	5	Inter	1	1	-	0.25	2	1	3	4	2	1
224581	Bohn, Danmark 5056	4n	4	Inter	5	1	-	1.25	2	1	3	4	2-4	1
224582	Bohn, Danmark 5057	4n	4	Erect	5	1	-	1.25	2	1	3	4	2-4	1
224583	Bohn, Danmark 5061	4n	4	Erect	5	1	-	1.25	2	1	3	4	2-4	1
224584	Bohn, Danmark 5074	4n	4	Erect	5	1	-	1.25	2	1	3	4	2-4	1
224585	Bohn, Waltham Forcing 5059	4n	5	Inter	3	2	R	1.5	1	1	5	3	2-4	1
224586	Bohn, Waltham Forcing 5060	4n	5	Inter	3	2	R	1.5	1	1	5	3	2-4	1
224587	Bohn, Waltham Forcing 5069	4n	5	Inter	3	2	R	1.5	1	1	5	3	2-4	1
224588	Bohn, Waltham Forcing 5075	4n	5	Inter	3	2	R	1.5	1	1	5	3	2-4	1

TABLE 8 (Continued)

PI number	Origin	Genotype	Vine and foliage characters						Fruit characters					
						Cracking								
			Vine size	Growth habit	Leaflet size	Amt.	Type	Size inches	Shape	Set	Maturity	Intensity flesh color	Number locules	Fasciation
		c. Auto-diploids												
212438	Rick, San Marzano, colchicine	Auto 2n	3	Erect	3	-	-	1.0 x3.25	4	5	3	3	2	1
212442	Burdick 227, L. pimp.	Auto 2n from 13 chr. haploid	5	Inter	1	-	-	0.5	2	5	3	3	2	1
212443	Burdick 230, L. pimp.	Auto 2n from 12 chr. haploid	5	Inter	1	-	-	0.5	2	5	3	3	2	1
212444	Burdick 236, L. pimp.	Auto 2n from 12 chr. haploid	5	Inter	1	-	-	0.5	2	5	3	3	2	1
		d. Male sterlies and other unfruitfuls**												
212416	Rick 2-31, Pearson	:ms_2												
212417	Rick 2-89, San Marzano	:ms_7												
212418	Rick 2-121, San Marzano	:ms_9												
212419	Rick 2-132, San Marzano	(ms_{10}):												
212420	Rick 2-165, San Marzano	:ms_{13}												
212421	Rick 2-175, Earliana	:ms_{14}												
212422	Rick LA 62, Pritchard	:ms_{16}												
212423	Rick 2-225, Ace	:ms_{17}												
212424	Rick 2-233, Cal-255	:ms_{18}												
224589	PI 148720 x PI 79532	:ca												
224590	Rick 2-69	:dl												
224591	Rick 2-171	:vg												
224592	Rick 2-84	(c*) (1*) : Cl_1												
224593	Rick 2-137	: pl												
224594	Rick 16-9	: ap												
224595	Rick 2-185	: cl_2												
224596	Bishop K50	: sl												
224597	Pollack 1025	(d ps) (y) (c) (1):												

* Segregating
** Seed to be distributed is from normal heterozygotes